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Preface

The *Natural Gas Monthly* (NGM) highlights activities, events, and analyses of interest to public and private sector organizations associated with the natural gas industry. Volume and price data are presented each month for natural gas production, distribution, consumption, and interstate pipeline activities. Producer-related activities and underground storage data are also reported.

The data in this publication are collected on surveys conducted by EIA to fulfill its responsibilities for gathering and reporting energy data. Geographic coverage is the 50 States and the District of Columbia.

Explanatory Notes supplement the information found in tables of the report. A description of the data collection surveys that support the NGM is provided in the Data Sources section. A glossary of the terms used in this report is also provided to assist readers in understanding the data presented in this publication.

All natural gas volumes are reported at a pressure base of 14.73 pounds per square inch absolute (psia) and at 60 degrees Fahrenheit. Cubic feet are converted to cubic meters by applying a factor of 0.02831685.

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Highlights

This issue of the *Natural Gas Monthly* (NGM) contains state and national-level estimates of natural gas volume and price data through August 2018.

Recent analyses of the natural gas industry are available on the [EIA website](#) by clicking the “[Natural Gas](#)” link under the “Sources & Uses” tab. The two reports listed under “Regular Weekly Releases” along the right side of the natural gas page are updated regularly. These reports are:

- [Weekly Natural Gas Storage Report](#) -- a weekly report containing estimates of natural gas in underground storage for the United States and five regions of the United States released each Thursday at 10:30 a.m. at the EIA website, except for certain weeks with Federal holidays. The report contains estimates of storage for the current and prior week and comparisons to previous periods. Links are provided to papers describing survey Form EIA-912, "Weekly Underground Natural Gas Storage Report," and the estimation methodology.
- [Natural Gas Weekly Update](#) -- a current analysis of the industry each week, including information on natural gas spot and futures prices and storage activities. This page also provides links to numerous other EIA sites dealing with natural gas.

Other natural gas data and analyses may be found through the “Natural Gas” section of EIA’s website.

Abbreviations

Common Abbreviations Used in the *Natural Gas Monthly*

Bcf	Billion cubic feet
CNG	Compressed natural gas
DOE	U.S. Department of Energy
EIA	Energy Information Administration, U.S. Department of Energy
FERC	Federal Energy Regulatory Commission
GOM	Gulf of Mexico
LNG	Liquefied natural gas
Mcf	Thousand cubic feet
MMcf	Million cubic feet
NGPL	Natural gas plant liquid
Tcf	Trillion cubic feet

Table 1. Summary of natural gas supply and disposition in the United States, 2013-2018

(billion cubic feet)

Year and Month	Gross Withdrawals	Marketed Production	NGPL Production ^a	Dry Gas Production ^b	Supplemental Gaseous Fuels ^c	Net Imports	Net Storage Withdrawals ^d	Balancing Item ^e	Consumption ^f
2013 Total	29,523	25,562	1,357	24,206	55	1,311	546	38	26,155
2014 Total	31,405	27,498	1,608	25,890	60	1,181	-254	-283	26,593
2015 Total	32,915	28,772	1,707	27,065	59	935	-547	-268	27,244
2016									
January	2,823	2,435	155	2,280	5	105	741	-40	3,092
February	2,654	2,311	147	2,163	5	89	411	-16	2,652
March	2,825	2,442	155	2,287	5	46	53	-34	2,356
April	2,679	2,362	150	2,211	5	63	-171	-25	2,084
May	2,768	2,412	154	2,259	5	60	-337	-21	1,966
June	2,628	2,312	147	2,165	5	59	-229	1	2,001
July	2,721	2,409	153	2,256	5	76	-139	-11	2,187
August	2,723	2,390	152	2,238	5	48	-130	48	2,208
September	2,626	2,297	146	2,151	5	37	-270	25	1,948
October	2,720	2,365	151	2,214	5	55	-316	-32	1,925
November	2,678	2,307	147	2,161	5	3	39	-48	2,159
December	2,747	2,358	150	2,207	5	30	688	-63	2,866
Total	32,592	28,400	1,808	26,592	57	671	340	-216	27,444
2017									
January	2,749	2,355	154	2,202	5	20	687	-13	2,901
February	2,505	2,146	140	2,005	5	*	292	28	2,329
March	2,812	2,431	159	2,272	5	9	281	-39	2,529
April	2,703	2,355	154	2,201	5	-9	-236	-34	1,928
May	2,787	2,430	159	2,271	5	-10	-348	-22	1,897
June	2,693	2,370	155	2,215	5	-14	-287	-8	1,912
July	2,764	2,479	162	2,317	6	2	-155	-37	2,133
August	2,781	2,478	162	2,316	6	1	-201	-17	2,105
September	2,767	2,434	159	2,275	5	-21	-323	-14	1,923
October	2,907	2,550	166	2,384	6	-37	-254	-62	2,037
November	2,884	2,535	165	2,370	6	-45	90	-70	2,351
December	3,006	2,635	172	2,463	6	-22	707	-88	3,066
Total	33,357	29,197	1,906	27,291	66	-125	254	-375	27,110
2018									
January	€2,959	€2,586	171	€2,416	6	3	896	R-13	R3,308
February	€2,724	€2,385	163	€2,222	6	-36	467	R40	R2,699
March	€3,048	€2,673	188	€2,485	6	-18	285	R13	R2,772
April	€2,960	€2,598	184	€2,414	5	-35	-32	R-16	R2,335
May	€3,082	€2,713	192	€2,521	5	-44	-423	R-14	R2,046
June	RE2,955	RE2,641	187	RE2,454	6	R-31	R-349	R-31	R2,049
July	RE3,107	RE2,782	197	RE2,585	5	R-56	-186	R-6	R2,341
August	€3,179	€2,844	204	€2,640	6	-65	-235	-33	2,313
2018 8-Month YTD	€24,013	€21,222	1,485	€19,737	45	-283	422	-60	19,862
2017 8-Month YTD	21,793	19,043	1,243	17,800	43	-1	34	-142	17,734
2016 8-Month YTD	21,820	19,073	1,214	17,859	38	546	200	-98	18,546

^a Monthly natural gas plant liquid (NGPL) production, gaseous equivalent, is derived from sample data reported by gas processing plants on Form EIA-816, "Monthly Natural Gas Liquids Report," and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production."

^b Equal to marketed production minus NGPL production.

^c Supplemental gaseous fuels data are collected only on an annual basis except for the Dakota Gasification Co. coal gasification facility which provides data each month. The ratio of annual supplemental fuels (excluding Dakota Gasification Co.) to the sum of dry gas production, net imports, and net withdrawals from storage is calculated. This ratio is applied to the monthly sum of these three elements. The Dakota Gasification Co. monthly value is added to the result to produce the monthly supplemental fuels estimate.

^d Monthly and annual data for 2013 through 2016 include underground storage and liquefied natural gas storage. Data for January 2017 forward include underground storage only. See Appendix A, Explanatory Note 5, for discussion of computation procedures.

^e Represents quantities lost and imbalances in data due to differences among data sources. Net imports and balancing item for 2014 and 2015 excludes net intransit deliveries. These net intransit deliveries were (in billion cubic feet): 74 for 2017; 70 for 2016; 57 for 2015; 27 for 2014; and 54 for 2013. See Appendix A, Explanatory Note 7, for full discussion.

^f Consists of pipeline fuel use, lease and plant fuel use, vehicle fuel, and deliveries to consuming sectors as shown in Table 2.

* Volume is between -500 MMcf and 500 MMcf.

^R Revised data.

^E Estimated data.

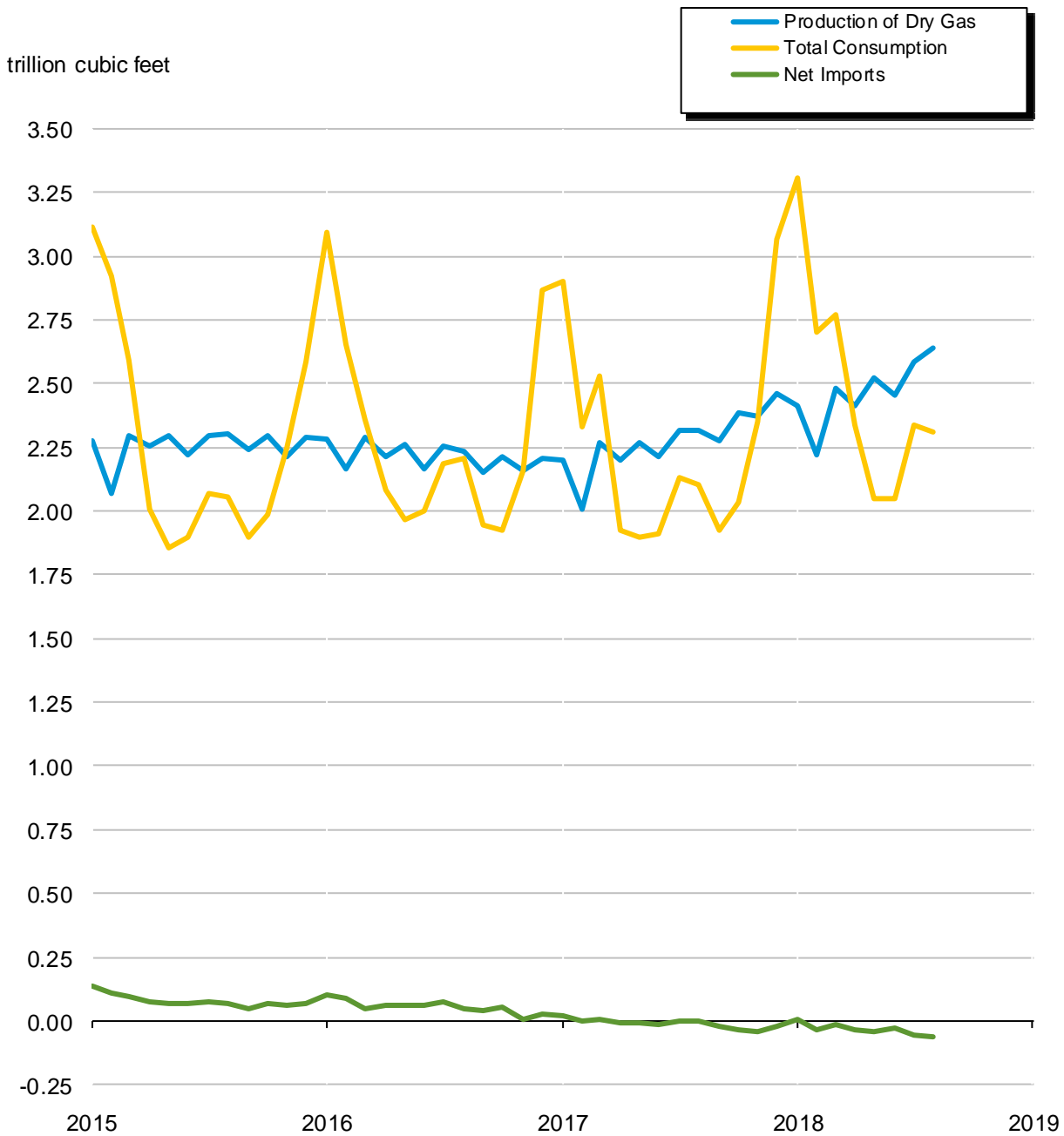
^{RE} Revised estimated data.

Notes: Data for 2013 through 2016 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: 2013-2017: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2017*. January 2018 through current month: Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"; Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-191, "Monthly Underground Gas Storage Report"; EIA computations and estimates; and Office of Fossil Energy, "Natural Gas Imports and Exports." See Table 7 for detailed source notes for Marketed Production. See Appendix A, Notes 3 and 4, for discussion of computation and estimation procedures and revision policies.

Figure 1

Figure 1. Production, consumption, and net imports of natural gas in the United States, 2015-2018



Sources: 2014-2016: Energy Information Administration (EIA), *Natural Gas Annual 2016*. January 2017 through current month: Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"; Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-191, "Monthly Underground Gas Storage Report"; EIA computations and estimates; and Office of Fossil Energy, "Natural Gas Imports and Exports."

Table 2. Natural gas consumption in the United States, 2013-2018

(billion cubic feet, or as indicated)

Year and Month	Lease and Plant Fuel ^a	Pipeline and Distribution Use ^b	Delivered to Consumers						Total Consumption	Heating Value ^c (Btu per cubic foot)
			Residential	Commercial	Industrial	Electric Power	Vehicle Fuel	Total		
2013 Total	1,483	833	4,897	3,295	7,425	8,191	30	23,839	26,155	1,027
2014 Total	1,512	700	5,087	3,466	7,646	8,146	35	24,381	26,593	1,032
2015 Total	1,576	678	4,613	3,202	7,522	9,613	39	24,989	27,244	1,037
2016										
January	133	78	879	503	721	774	4	2,881	3,092	1,038
February	126	67	690	414	663	690	3	2,460	2,652	1,038
March	133	59	455	298	663	745	4	2,164	2,356	1,037
April	128	52	328	233	620	719	3	1,904	2,084	1,037
May	131	49	194	171	613	804	4	1,786	1,966	1,034
June	126	50	123	138	590	970	3	1,825	2,001	1,034
July	131	55	106	135	616	1,140	4	2,001	2,187	1,034
August	130	55	100	140	628	1,151	4	2,023	2,208	1,037
September	125	48	110	142	604	915	3	1,774	1,948	1,037
October	129	48	187	191	623	744	4	1,749	1,925	1,036
November	126	54	380	281	654	662	3	1,980	2,159	1,037
December	128	73	794	463	734	671	4	2,665	2,866	1,039
Total	1,545	687	4,347	3,110	7,729	9,985	42	25,212	27,444	1,037
2017										
January	126	78	831	479	735	647	4	2,696	2,901	1,039
February	115	63	579	359	650	559	4	2,152	2,329	1,038
March	130	68	580	372	697	679	4	2,331	2,529	1,037
April	126	51	279	212	632	624	4	1,751	1,928	1,036
May	130	50	199	178	629	706	4	1,717	1,897	1,035
June	127	50	124	138	615	854	4	1,735	1,912	1,035
July	133	56	107	134	624	1,074	4	1,943	2,133	1,035
August	133	56	104	137	638	1,034	4	1,916	2,105	1,035
September	130	51	115	145	616	862	4	1,742	1,923	1,036
October	137	54	205	201	657	780	4	1,847	2,037	1,035
November	136	63	468	322	696	663	4	2,153	2,351	1,037
December	141	83	822	487	761	768	4	2,842	3,066	1,039
Total	1,564	722	4,412	3,164	7,949	9,250	49	24,824	27,110	1,036
2018										
January	£139	£88	975	548	770	£785	£4	£3,081	£3,308	1,038
February	£128	£72	687	420	689	£701	£3	£2,500	£2,699	1,037
March	£143	£74	656	414	726	£756	£4	£2,555	£2,772	1,037
April	£139	£62	439	299	685	£707	£4	£2,134	£2,335	1,035
May	£145	£54	168	162	659	£853	£4	£1,846	£2,046	1,034
June	£142	£55	119	141	637	£952	£4	£1,853	£2,049	1,035
July	£149	£62	105	135	652	£1,233	£4	£2,130	£2,341	1,035
August	£152	£62	99	141	655	1,200	£4	2,099	2,313	1,034
2018 8-Month YTD	£1,137	£529	3,247	2,259	5,474	7,188	£29	18,196	19,862	1,036
2017 8-Month YTD	1,020	472	2,803	2,010	5,219	6,177	32	16,241	17,734	1,036
2016 8-Month YTD	1,038	464	2,876	2,033	5,114	6,993	28	17,044	18,546	1,036

^a Plant fuel data and lease fuel data are collected only annually. Monthly lease and plant fuel use is estimated from monthly marketed production by assuming that the preceding annual percentage remains constant for the next 12 months.

^b Published pipeline and distribution use data are based on reports collected on an annual basis. Monthly pipeline and distribution use data are estimated from monthly total consumption (excluding pipeline and distribution use) by assuming that the preceding annual percentage remains constant for the next 12 months. Pipeline and distribution use volumes include Line Loss, defined as known volumes of natural gas that were the result of leaks, damage, accidents, migration, and/or blow down.

^c Heating value is the average number of British thermal units per cubic foot of natural gas as reported on EIA-857 and EIA-176. See Appendix A, Explanatory Note 11, for further information.

^R Revised data.

^E Estimated data.

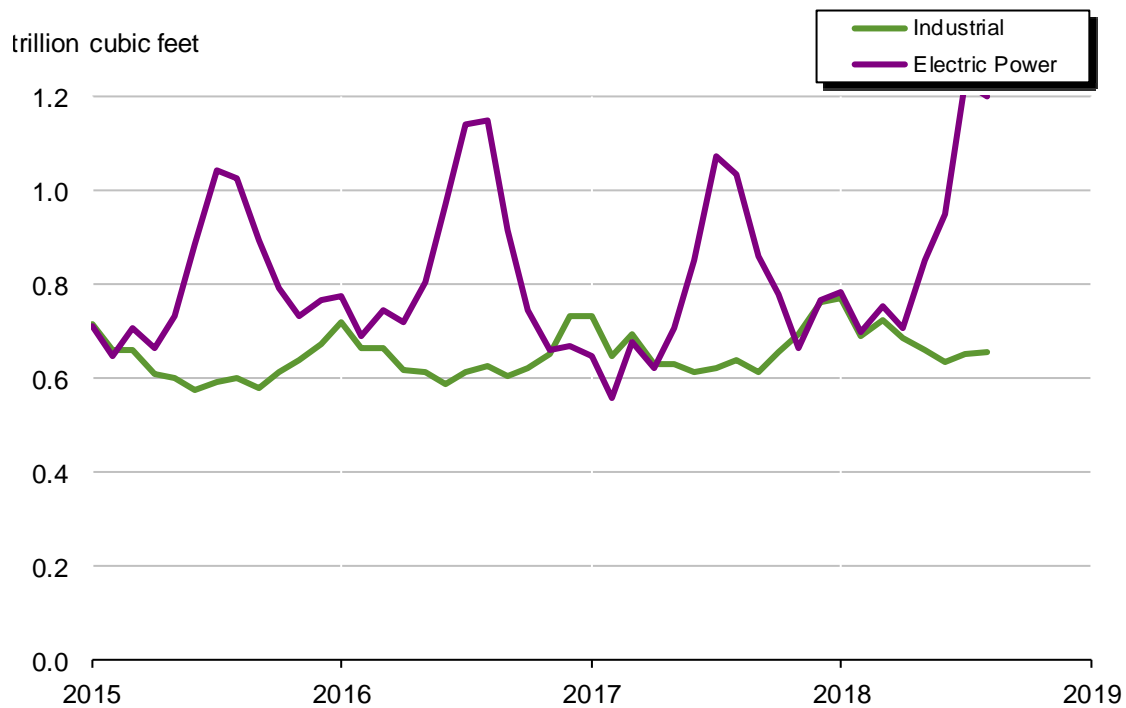
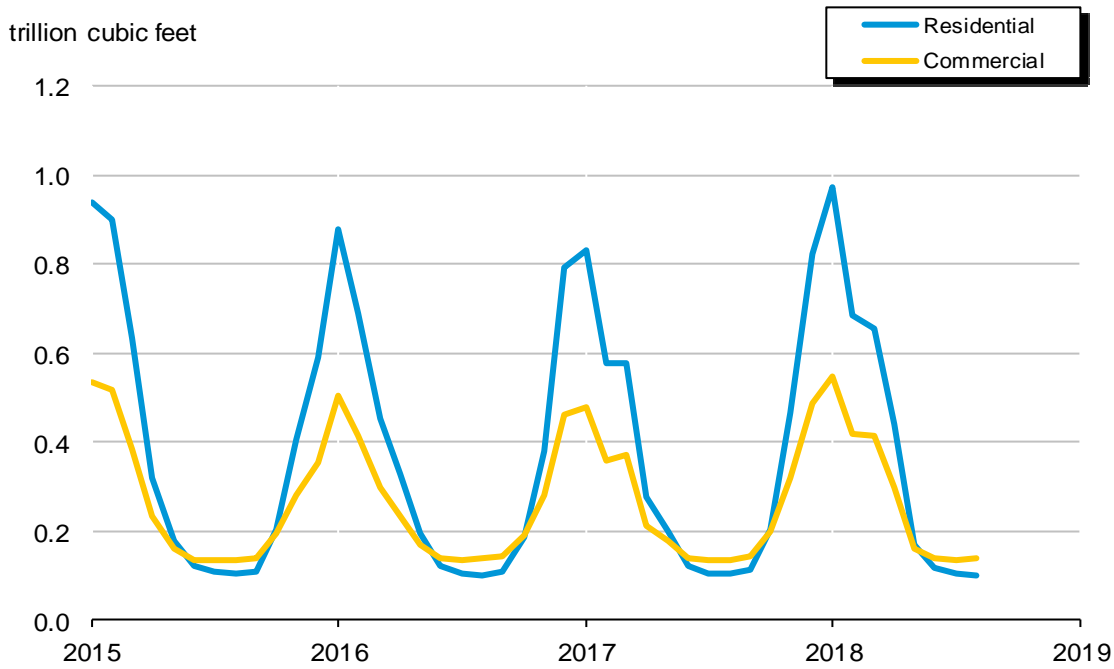
^{RE} Revised estimated data.

Notes: Data for 2013 through 2016 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Note 6, for definition of sectors.

Sources: 2013-2017: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; state and federal agencies; EIA estimates based on historical data; and *Natural Gas Annual 2017*. January 2018 through current month: Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"; Form EIA-857; Form EIA-923, "Power Plant Operations Report." See Appendix A, Explanatory Note 6, for computation procedures and revision policy.

Figure 2

Figure 2. Natural gas deliveries to consumers in the United States, 2015-2018



Sources: 2014-2016: Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-923, "Power Plant Operations Report"; EIA computations; and Natural Gas Annual 2016. January 2017 through current month: Form EIA-857 and Form EIA-923.

Table 3. Selected national average natural gas prices, 2013-2018

(dollars per thousand cubic feet, except where noted)

Year and Month	NGPL Composite Spot Price ^a	Natural Gas Spot Price ^b	Citygate Price	Delivered to Consumers						
				Residential		Commercial		Industrial		Electric Power Price ^d
				Price	% of Total ^c	Price	% of Total ^c	Price	% of Total ^c	
2013 Annual Average	9.94	3.73	4.88	10.32	95.7	8.08	65.8	4.64	16.6	4.49
2014 Annual Average	9.56	4.37	5.71	10.97	95.5	8.90	65.8	5.62	15.9	5.19
2015 Annual Average	4.97	2.62	4.26	10.38	95.6	7.91	65.7	3.93	14.8	3.38
2016										
January	3.69	2.28	3.39	8.28	96.0	6.75	70.4	3.62	15.4	3.18
February	3.89	1.99	3.48	8.36	95.8	6.86	69.4	3.58	15.8	2.83
March	4.48	1.73	3.49	9.19	95.6	7.08	66.7	3.02	15.5	2.33
April	4.65	1.92	3.22	9.65	95.6	6.98	65.0	3.00	14.6	2.52
May	5.11	1.92	3.44	11.62	95.4	7.32	60.2	2.90	14.7	2.49
June	5.25	2.59	3.84	14.43	95.7	7.72	58.0	2.89	14.7	2.77
July	4.92	2.82	4.42	16.56	95.9	8.14	56.9	3.57	14.3	3.07
August	4.94	2.82	4.33	17.60	95.8	8.30	54.7	3.59	14.7	3.07
September	5.25	2.99	4.60	16.78	96.0	8.28	56.2	3.74	14.6	3.18
October	6.05	2.98	4.19	13.74	95.9	7.96	59.9	3.87	14.5	3.23
November	5.45	2.55	3.90	10.77	96.0	7.67	63.5	3.86	14.6	3.14
December	6.66	3.59	3.96	9.06	96.0	7.27	68.2	4.27	15.0	4.15
Annual Average	5.04	2.52	3.71	10.05	95.8	7.28	64.8	3.51	14.9	2.99
2017										
January	6.78	3.30	4.21	9.32	95.9	7.58	70.5	4.87	15.0	4.33
February	7.24	2.85	4.13	10.01	95.8	7.89	69.0	4.56	14.9	3.74
March	5.91	2.88	3.84	9.86	95.7	7.68	67.7	3.94	14.9	3.52
April	6.25	3.10	4.20	11.34	95.2	8.04	65.0	4.13	14.5	3.50
May	6.14	3.15	4.42	13.26	95.5	8.31	60.8	4.03	13.9	3.61
June	5.73	2.97	4.82	16.06	94.4	8.75	58.2	4.06	14.5	3.41
July	6.27	2.98	4.73	17.86	95.8	8.81	57.2	3.93	14.6	3.32
August	7.01	2.90	4.61	18.22	95.6	8.76	55.9	3.79	14.2	3.27
September	7.80	2.98	4.52	16.92	96.1	8.52	56.2	3.84	13.7	3.31
October	7.84	2.88	4.03	13.36	96.4	7.97	61.5	3.79	14.2	3.27
November	8.03	3.01	3.97	10.15	96.0	7.51	65.8	3.85	14.5	3.50
December	7.82	2.82	4.00	9.29	96.5	7.42	69.1	4.21	15.0	3.81
Annual Average	6.92	2.99	4.16	10.91	95.9	7.88	65.4	4.10	14.5	3.52
2018										
January	7.91	3.87	4.29	8.92	96.1	7.43	71.2	4.49	14.9	5.35
February	7.43	2.67	3.99	9.64	96.0	7.83	69.0	4.86	14.6	3.74
March	7.17	2.69	3.71	9.78	95.9	7.74	68.4	4.02	15.0	3.32
April	7.49	2.80	3.64	10.08	95.6	7.67	65.2	3.91	14.8	3.25
May	8.40	2.80	R4.13	13.67	94.8	8.47	59.7	3.81	13.8	3.15
June	8.57	2.97	4.46	16.51	95.7	8.59	R57.6	3.78	R13.7	3.21
July	8.99	2.83	R4.68	R17.91	95.8	R8.93	56.1	R3.78	13.6	3.42
August	9.18	2.96	4.88	18.63	95.6	8.73	54.9	3.73	13.8	3.39
2018 8-Month YTD	8.18	2.94	4.07	10.56	95.8	7.88	65.8	4.07	14.3	3.57
2017 8-Month YTD	6.40	3.02	4.23	11.03	95.7	7.98	65.5	4.18	14.6	3.54
2016 8-Month YTD	4.64	2.26	3.54	9.75	95.8	7.13	65.3	3.28	15.0	2.81

^a The natural gas plant liquid (NGPL) composite spot price, shown in dollars per million Btu (\$/MMBtu), is derived from daily Bloomberg spot price data for natural gas plant liquids at Mont Belvieu, Texas, weighted by gas processing plant production volumes of each product as reported on Form EIA-816, "Monthly Natural Gas Liquids Report." See Appendix A, Explanatory Note 9, for full discussion.

^b The natural gas spot price, shown in \$/MMBtu, represents the average of the daily closing spot prices for natural gas at the Henry Hub in Louisiana, taken from Thompson Reuters. See Appendix A, Explanatory Note 9, for full discussion.

^c Percentage of total deliveries represented by onsystem sales (see Figure 6). See Table 24 for state data.

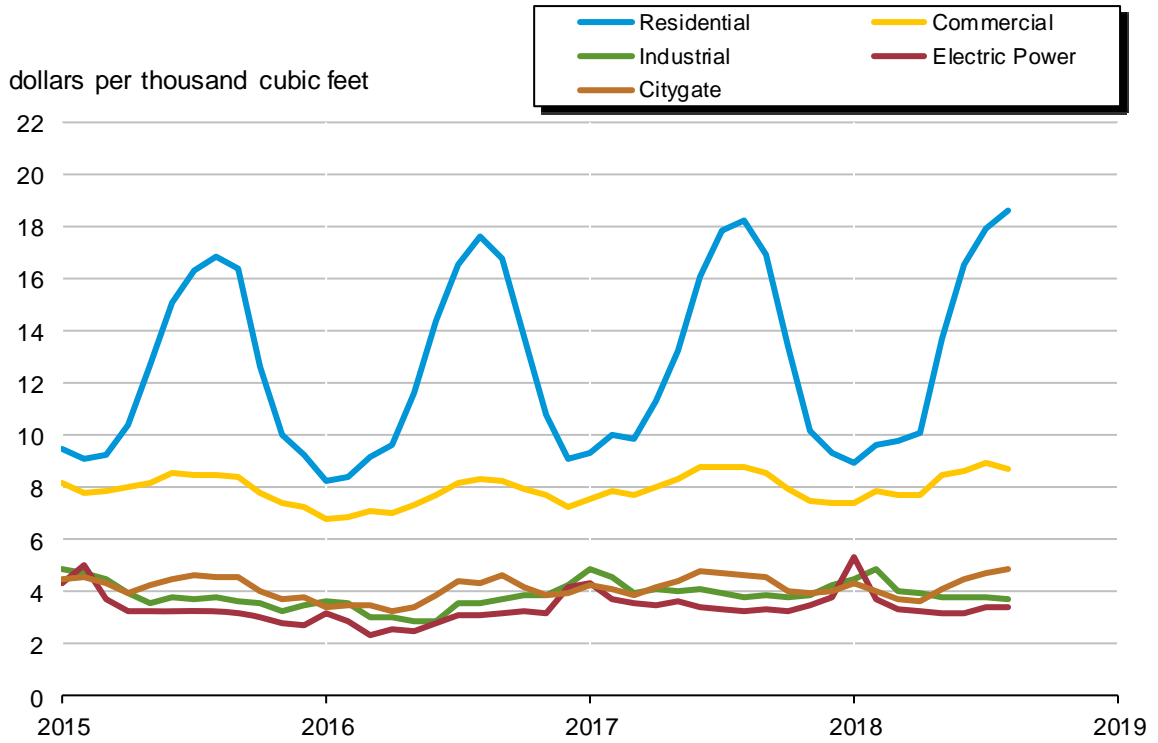
^d The electric power sector comprises electricity-only and combined-heat-and-power plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Data include nonregulated members of the electric power sector.

^R Revised data.

Notes: Prices are in nominal dollars. Data for 2013 through 2016 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 states and the District of Columbia. Published residential, commercial, and industrial prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges.

Sources: 2013-2017: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2017*. January 2018 through current month: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-910, "Monthly Natural Gas Marketer Survey"; Form EIA-923, "Power Plant Operations Report"; Form EIA-816; Bloomberg; Thompson Reuters; and EIA estimates.

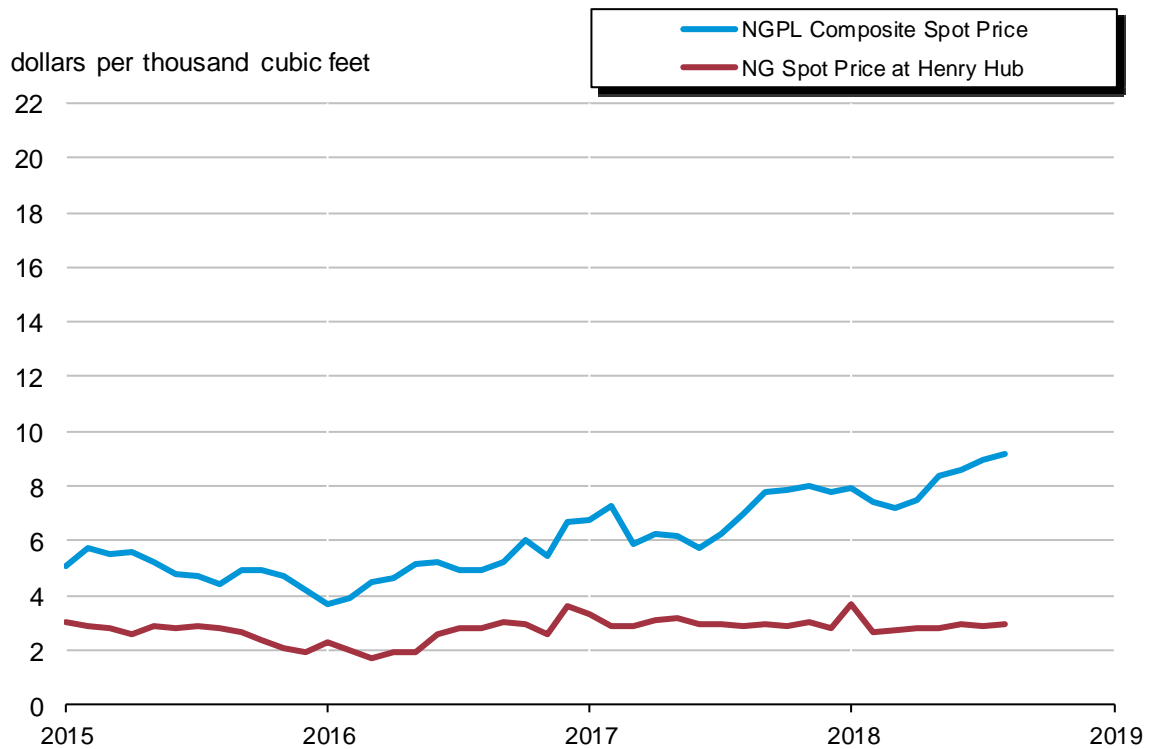
Figure 3. Average citygate and consumer prices of natural gas in the United States, 2015-2018



Note: Prices are in nominal dollars.

Sources: 2014-2016: Energy Information Administration (EIA), *Natural Gas Annual 2016*. January 2017 through current month: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-910, "Monthly Natural Gas Marketer Survey"; Form EIA-923, "Power Plant Operations Report"; Form EIA-816; Bloomberg; Thompson Reuters; and EIA estimates.

Figure 4. Spot prices of natural gas and natural gas plant liquids in the United States, 2015-2018



Note: Prices are in nominal dollars.

Sources: 2014-2016: Energy Information Administration (EIA), *Natural Gas Annual 2016*. January 2017 through current month: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"; Form EIA-910, "Monthly Natural Gas Marketer Survey"; Form EIA-923, "Power Plant Operations Report"; Form EIA-816; Bloomberg; Thompson Reuters; and EIA estimates.

Table 4. U.S. natural gas imports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet)

	2018	2017	2016	2018				
	8-Month YTD	8-Month YTD	8-Month YTD	August	July	June	May	April
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	1,960,374	1,991,136	1,962,044	236,194	242,492	R227,313	226,355	240,552
Mexico	3,035	617	605	522	960	240	190	68
Total Pipeline Imports	1,963,409	1,991,753	1,962,649	236,716	243,452	R227,553	226,545	240,620
LNG								
By Truck								
Canada	1,189	1,093	738	242	226	216	224	196
By Vessel								
France	2,768	0	0	0	0	0	0	0
Nigeria	0	2,753	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0	0
Trinidad/Tobago	42,570	51,817	61,067	5,231	5,376	2,688	2,429	2,934
United Kingdom	3,119	0	0	0	0	0	0	0
Total LNG Imports	49,646	55,663	61,805	5,473	5,602	2,904	2,653	3,131
CNG								
Canada	245	237	210	23	28	28	27	39
Total CNG Imports	245	237	210	23	28	28	27	39
Total Imports	2,013,300	2,047,653	2,024,664	242,212	249,082	R230,486	229,226	243,789
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.34	2.64	1.93	2.13	2.02	1.77	1.64	2.11
Mexico	4.43	2.69	1.53	5.49	5.32	2.63	2.22	2.10
Total Pipeline Imports	2.34	2.64	1.93	2.14	2.03	1.77	1.64	2.11
LNG								
By Truck								
Canada	8.24	8.74	8.10	8.32	8.32	8.18	8.27	8.30
By Vessel								
France	8.35	--	--	--	--	--	--	--
Nigeria	--	5.82	--	--	--	--	--	--
Norway	--	--	--	--	--	--	--	--
Trinidad/Tobago	5.12	4.37	3.94	3.50	3.53	4.33	4.27	4.33
United Kingdom	13.26	--	--	--	--	--	--	--
Total LNG Imports	5.88	4.53	3.99	3.72	3.72	4.62	4.61	4.57
CNG								
Canada	4.02	3.40	2.11	1.42	1.31	1.01	1.19	2.69
Total CNG Imports	4.02	3.40	2.11	1.42	1.31	1.01	1.19	2.69
Total Imports	2.57	2.81	2.12	2.26	2.15	1.86	1.73	2.20
Net Imports - Volume	-282,701	-787	546,423	-65,084	R-56,483	R-30,824	-44,069	-35,463

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2018				2017			
	March	February	January	Total	December	November	October	September
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	267,653	233,056	286,758	2,962,689	266,192	237,197	241,425	226,738
Mexico	119	805	130	1,346	504	76	81	68
Total Pipeline Imports	267,773	233,861	286,889	2,964,035	266,696	237,273	241,506	226,806
LNG								
By Truck								
Canada	54	21	10	1,569	8	165	120	183
By Vessel								
France	2,768	0	0	0	0	0	0	0
Nigeria	0	0	0	5,992	3,239	0	0	0
Norway	0	0	0	0	0	0	0	0
Trinidad/Tobago	3,650	6,750	13,511	70,450	7,617	6,213	2,337	2,467
United Kingdom	0	0	3,119	0	0	0	0	0
Total LNG Imports	6,473	6,771	16,640	78,011	10,864	6,378	2,457	2,650
CNG								
Canada	42	29	28	345	31	30	22	25
Total CNG Imports	42	29	28	345	31	30	22	25
Total Imports	274,287	240,661	303,557	3,042,391	277,590	243,681	243,985	229,482
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.17	2.75	3.78	2.55	2.94	2.40	1.98	2.05
Mexico	2.65	4.38	3.38	2.93	3.42	2.44	2.43	2.64
Total Pipeline Imports	2.17	2.76	3.78	2.55	2.94	2.40	1.98	2.05
LNG								
By Truck								
Canada	7.94	7.17	7.94	8.63	8.19	8.12	8.33	8.66
By Vessel								
France	8.35	--	--	--	--	--	--	--
Nigeria	--	--	--	6.52	7.11	--	--	--
Norway	--	--	--	--	--	--	--	--
Trinidad/Tobago	6.08	5.95	6.18	4.32	4.88	3.47	4.20	3.74
United Kingdom	--	--	13.26	--	--	--	--	--
Total LNG Imports	7.07	5.95	7.51	4.58	5.55	3.59	4.41	4.08
CNG								
Canada	2.14	12.03	10.87	2.95	4.31	1.17	1.06	0.82
Total CNG Imports	2.14	12.03	10.87	2.95	4.31	1.17	1.06	0.82
Total Imports	2.45	3.01	4.40	2.60	3.26	2.52	2.05	2.12
Net Imports - Volume	-17,692	-35,614	2,528	-125,466	-21,834	-44,673	-37,374	-20,798

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

								2017
	August	July	June	May	April	March	February	January
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	239,935	245,212	234,061	238,753	232,998	275,573	246,020	278,584
Mexico	63	80	78	78	79	83	74	83
Total Pipeline Imports	239,997	245,292	234,140	238,831	233,077	275,656	246,094	278,666
LNG								
By Truck								
Canada	226	215	212	220	186	8	8	18
By Vessel								
France	0	0	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0	0	2,753
Norway	0	0	0	0	0	0	0	0
Trinidad/Tobago	7,636	4,974	5,425	5,275	4,985	4,870	8,468	10,183
United Kingdom	0	0	0	0	0	0	0	0
Total LNG Imports	7,862	5,189	5,637	5,494	5,171	4,878	8,477	12,955
CNG								
Canada	28	27	29	28	31	34	26	35
Total CNG Imports	28	27	29	28	31	34	26	35
Total Imports	247,888	250,508	239,805	244,353	238,279	280,567	254,597	291,666
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.24	2.31	2.51	2.59	2.53	2.57	2.81	3.41
Mexico	2.31	2.62	2.77	2.62	2.64	2.27	2.94	3.29
Total Pipeline Imports	2.24	2.31	2.51	2.59	2.53	2.57	2.81	3.41
LNG								
By Truck								
Canada	8.69	8.78	8.91	8.88	8.49	7.05	7.22	9.12
By Vessel								
France	--	--	--	--	--	--	--	--
Nigeria	--	--	--	--	--	--	--	5.82
Norway	--	--	--	--	--	--	--	--
Trinidad/Tobago	3.19	3.21	3.37	3.65	3.56	4.34	6.39	5.48
United Kingdom	--	--	--	--	--	--	--	--
Total LNG Imports	3.34	3.44	3.58	3.86	3.74	4.35	6.39	5.56
CNG								
Canada	0.97	1.19	1.64	1.86	1.76	1.91	6.07	10.64
Total CNG Imports	0.97	1.19	1.64	1.86	1.76	1.91	6.07	10.64
Total Imports	2.38	2.40	2.62	2.70	2.64	2.68	3.14	3.75
Net Imports - Volume	969	2,080	-13,517	-9,511	-8,973	8,724	-349	19,789

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

								2016
	Total	December	November	October	September	August	July	June
Imports								
Volume (million cubic feet)								
Pipeline								
Canada ^a	2,916,856	271,845	221,866	225,588	235,512	253,793	259,132	234,145
Mexico	917	64	83	83	82	90	92	83
Total Pipeline Imports	2,917,774	271,910	221,949	225,671	235,594	253,883	259,224	234,229
LNG								
By Truck								
Canada	924	16	41	58	72	84	70	118
By Vessel								
France	0	0	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0	0	0
Norway	3,253	0	3,253	0	0	0	0	0
Trinidad/Tobago	84,190	8,838	5,779	5,696	2,810	7,998	5,703	7,520
United Kingdom	0	0	0	0	0	0	0	0
Total LNG Imports	88,367	8,854	9,073	5,753	2,882	8,082	5,773	7,638
CNG								
Canada	299	27	22	25	15	17	25	19
Total CNG Imports	299	27	22	25	15	17	25	19
Total Imports	3,006,439	280,791	231,044	231,449	238,491	261,983	265,022	241,885
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.18	3.31	2.41	2.50	2.42	2.29	2.26	1.76
Mexico	1.85	2.56	2.34	2.50	2.43	2.27	2.45	1.41
Total Pipeline Imports	2.18	3.31	2.41	2.50	2.42	2.29	2.26	1.76
LNG								
By Truck								
Canada	8.07	7.51	7.92	7.93	8.04	8.11	7.95	7.80
By Vessel								
France	--	--	--	--	--	--	--	--
Nigeria	--	--	--	--	--	--	--	--
Norway	3.12	--	3.12	--	--	--	--	--
Trinidad/Tobago	4.06	4.62	5.96	3.05	3.13	3.17	3.15	3.11
United Kingdom	--	--	--	--	--	--	--	--
Total LNG Imports	4.07	4.63	4.95	3.10	3.25	3.23	3.21	3.18
CNG								
Canada	1.97	3.24	0.97	0.72	1.22	1.20	1.62	0.63
Total CNG Imports	1.97	3.24	0.97	0.72	1.22	1.20	1.62	0.63
Total Imports	2.24	3.50	2.70	2.59	2.47	2.42	2.35	1.90
Net Imports - Volume	670,991	29,955	3,125	54,983	36,505	47,757	76,339	58,872

See footnotes at end of table.

Table 4. U.S. natural gas imports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2016				
	May	April	March	February	January
Imports					
Volume (million cubic feet)					
Pipeline					
Canada ^a	243,017	236,451	232,095	241,948	261,462
Mexico	72	71	69	70	59
Total Pipeline Imports	243,088	236,522	232,164	242,019	261,521
LNG					
By Truck					
Canada	113	74	65	116	97
By Vessel					
France	0	0	0	0	0
Nigeria	0	0	0	0	0
Norway	0	0	0	0	0
Trinidad/Tobago	5,087	4,693	8,503	9,612	11,951
United Kingdom	0	0	0	0	0
Total LNG Imports	5,200	4,767	8,568	9,728	12,048
CNG					
Canada	29	28	33	29	30
Total CNG Imports	29	28	33	29	30
Total Imports	248,317	241,317	240,764	251,775	273,600
Average Price (dollars per thousand cubic feet)					
Pipeline					
Canada	1.44	1.51	1.55	2.12	2.42
Mexico	1.10	1.03	0.82	1.22	1.50
Total Pipeline Imports	1.44	1.51	1.55	2.12	2.42
LNG					
By Truck					
Canada	7.72	7.88	8.74	8.58	8.21
By Vessel					
France	--	--	--	--	--
Nigeria	--	--	--	--	--
Norway	--	--	--	--	--
Trinidad/Tobago	3.36	3.23	3.25	5.08	5.45
United Kingdom	--	--	--	--	--
Total LNG Imports	3.45	3.30	3.29	5.12	5.48
CNG					
Canada	1.10	1.05	1.54	3.27	5.41
Total CNG Imports	1.10	1.05	1.54	3.27	5.41
Total Imports	1.55	1.61	1.73	2.43	2.80
Net Imports - Volume	60,043	63,464	45,849	89,019	105,079

^a EIA has reduced the reported volume of gas imported by pipeline from Canada by the amount of natural gas liquids removed from the saturated natural gas carried by Alliance Pipeline. Alliance moves saturated natural gas from the border to a processing plant in Illinois. After the adjustment, volumes of imported natural gas on this pipeline are on the same physical basis as other reported volumes of pipeline imports.

^b For the "Other" area the point of origin for volumes of imported LNG was unassigned in the reports to the Office of Fossil Energy.

^c Revised data.

^d Not applicable.

Note: In the case of missing import or export reports on Form FE-746R, "Import and Export of Natural Gas," EIA estimates the missing volumes using pipeline flows or other available information. Prices are in nominal dollars. LNG prices are a volume-weighted average of the prices reported by cargo. See the "LNG Monthly" (<https://energy.gov/fe/listings/lng-reports>) from the Office of Fossil Energy, U.S. Department of Energy, for more information on what is included in the individual LNG prices.

Source: Office of Fossil Energy, U.S. Department of Energy, "Natural Gas Imports and Exports."

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet)

	2018	2017	2016	2018				
	8-Month YTD	8-Month YTD	8-Month YTD	August	July	June	May	April
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	512,041	623,405	494,401	62,791	57,537	51,603	40,340	62,894
Mexico	1,102,328	1,014,991	891,407	152,965	149,766	136,142	138,128	130,644
Total Pipeline Exports	1,614,368	1,638,396	1,385,807	215,756	207,303	187,745	178,468	193,538
LNG								
Exports								
By Vessel								
Argentina	27,560	16,276	16,661	10,679	2,939	0	5,392	5,217
Bahamas	86	0	0	10	11	14	11	8
Barbados	106	129	30	13	10	10	13	8
Brazil	35,645	7,317	9,196	15,425	12,540	0	1,153	3,255
Chile	30,558	18,708	26,465	0	6,525	5,865	0	4,987
China	76,155	24,462	3,132	3,588	10,644	2,926	10,416	17,509
Colombia	5,101	0	0	867	1,521	1,113	0	1,599
Dominican Republic	5,835	2,934	2,945	2,992	0	0	1,023	0
Egypt	6,554	6,781	0	0	0	0	0	0
India	37,437	10,435	10,162	0	5,918	6,717	7,118	3,254
Israel	3,270	0	0	0	0	0	3,270	0
Italy	0	6,493	0	0	0	0	0	0
Japan	68,008	32,600	0	10,286	13,438	9,820	12,782	10,967
Jordan	27,738	25,814	3,566	3,677	0	3,201	10,572	3,293
Kuwait	9,981	20,213	3,610	3,485	0	0	6,496	0
Lithuania	0	3,431	0	0	0	0	0	0
Malta	2,927	867	0	0	2,927	0	0	0
Mexico	147,207	108,954	3,686	20,708	21,237	26,591	13,512	11,074
Netherlands	3,253	3,042	0	0	0	0	0	3,253
Pakistan	12,956	3,166	0	0	0	0	3,222	3,258
Panama	3,518	0	0	0	0	0	2,077	0
Poland	0	3,440	0	0	0	0	0	0
Portugal	5,544	15,821	3,700	2,296	0	0	0	0
South Korea	141,919	49,143	0	17,467	14,040	13,994	17,735	17,996
Spain	3,230	15,696	2,930	0	3,230	0	0	0
Taiwan	13,307	2,949	0	0	3,234	3,268	0	0
Thailand	0	3,113	0	0	0	0	0	0
Turkey	6,992	10,923	0	0	0	0	0	0
United Arab Emirates	0	13,408	3,391	0	0	0	0	0
United Kingdom	6,267	3,410	0	0	0	0	0	0
By Truck								
Canada	16	3	2	0	0	0	0	1
Mexico	303	382	208	33	26	17	6	4
Re-Exports								
By Vessel								
Argentina	0	0	612	0	0	0	0	0
Brazil	0	0	1,433	0	0	0	0	0
India	0	0	547	0	0	0	0	0
Mexico	0	0	0	0	0	0	0	0
Total LNG Exports	681,472	409,910	92,275	91,526	98,240	73,535	94,797	85,684
CNG								
Canada	161	134	158	15	22	29	30	29
Total CNG Exports	161	134	158	15	22	29	30	29
Total Exports	2,296,001	2,048,440	1,478,241	307,297	305,565	261,309	273,295	279,252

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2018				2017			
	March	February	January	Total	December	November	October	September
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	68,112	76,908	91,855	917,087	81,050	74,427	68,382	69,823
Mexico	132,301	125,684	136,698	1,543,056	135,756	133,807	132,778	125,724
Total Pipeline Exports	200,413	202,591	228,553	2,460,144	216,807	208,234	201,160	195,548
LNG								
Exports								
By Vessel								
Argentina	3,333	0	0	16,276	0	0	0	0
Bahamas	16	12	4	2	2	0	0	0
Barbados	13	20	20	200	19	20	17	14
Brazil	3,272	0	0	17,648	0	0	6,967	3,364
Chile	6,994	3,249	2,938	25,746	3,362	0	3,675	0
China	10,739	6,750	13,584	103,410	23,433	20,871	24,588	10,056
Colombia	0	0	0	0	0	0	0	0
Dominican Republic	1,821	0	0	8,691	0	2,835	0	2,922
Egypt	0	0	6,554	6,781	0	0	0	0
India	10,834	0	3,596	20,919	3,427	7,057	0	0
Israel	0	0	0	0	0	0	0	0
Italy	0	0	0	6,493	0	0	0	0
Japan	0	7,099	3,615	53,218	13,893	0	6,725	0
Jordan	3,694	3,300	0	36,321	7,135	0	3,373	0
Kuwait	0	0	0	20,213	0	0	0	0
Lithuania	0	0	0	6,844	0	0	0	3,414
Malta	0	0	0	867	0	0	0	0
Mexico	28,877	14,777	10,431	140,321	3,635	10,760	6,686	10,286
Netherlands	0	0	0	3,042	0	0	0	0
Pakistan	3,108	0	3,368	3,166	0	0	0	0
Panama	1,442	0	0	0	0	0	0	0
Poland	0	0	0	3,440	0	0	0	0
Portugal	0	0	3,247	19,523	0	3,702	0	0
South Korea	11,079	28,322	21,286	130,185	20,810	21,141	21,577	17,514
Spain	0	0	0	29,329	3,370	3,617	2,980	3,666
Taiwan	0	6,806	0	9,004	0	2,934	3,121	0
Thailand	0	0	0	3,113	0	0	0	0
Turkey	0	3,279	3,714	24,855	3,413	7,076	0	3,443
United Arab Emirates	0	0	0	13,408	0	0	0	0
United Kingdom	6,267	0	0	3,410	0	0	0	0
By Truck								
Canada	0	15	0	5	0	2	0	0
Mexico	56	56	105	691	105	86	65	53
Re-Exports								
By Vessel								
Argentina	0	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0	0
India	0	0	0	0	0	0	0	0
Mexico	0	0	0	422	0	0	422	0
Total LNG Exports	91,542	73,684	72,463	707,542	82,604	80,100	80,195	54,733
CNG								
Canada	24	0	13	171	13	20	4	0
Total CNG Exports	24	0	13	171	13	20	4	0
Total Exports	291,979	276,275	301,029	3,167,857	299,424	288,354	281,359	250,280

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

								2017
	August	July	June	May	April	March	February	January
Exports								
Volume (million cubic feet)								
Pipeline								
Canada	66,342	59,760	66,725	63,949	80,532	99,489	87,798	98,811
Mexico	135,108	135,068	134,118	129,110	116,027	128,774	115,089	121,696
Total Pipeline Exports	201,450	194,828	200,844	193,058	196,559	228,263	202,887	220,508
LNG								
Exports								
By Vessel								
Argentina	0	0	2,949	3,192	10,135	0	0	0
Bahamas	0	0	0	0	0	0	0	0
Barbados	16	10	16	15	15	20	15	22
Brazil	0	3,642	0	3,676	0	0	0	0
Chile	0	3,256	3,657	0	5,894	2,951	2,950	0
China	0	7,218	0	3,514	0	0	10,338	3,391
Colombia	0	0	0	0	0	0	0	0
Dominican Republic	0	0	0	0	0	2,934	0	0
Egypt	3,317	3,464	0	0	0	0	0	0
India	0	0	3,413	0	0	0	3,399	3,623
Israel	0	0	0	0	0	0	0	0
Italy	3,372	0	3,120	0	0	0	0	0
Japan	3,614	0	3,683	3,667	7,398	0	3,705	10,533
Jordan	7,393	0	0	3,453	0	6,655	2,945	5,368
Kuwait	0	3,410	0	3,281	6,784	3,360	3,378	0
Lithuania	3,431	0	0	0	0	0	0	0
Malta	0	0	0	0	0	0	0	867
Mexico	6,860	14,432	24,763	10,023	13,730	10,728	14,407	14,010
Netherlands	0	0	0	3,042	0	0	0	0
Pakistan	0	0	0	0	0	3,166	0	0
Panama	0	0	0	0	0	0	0	0
Poland	0	0	0	3,440	0	0	0	0
Portugal	3,399	3,662	0	3,625	0	0	1,692	3,442
South Korea	10,320	14,238	7,431	6,818	3,295	7,042	0	0
Spain	3,712	217	0	0	0	0	1,766	10,002
Taiwan	0	0	0	2,949	0	0	0	0
Thailand	0	0	0	0	0	3,113	0	0
Turkey	0	0	0	0	0	3,521	7,402	0
United Arab Emirates	0	0	0	10,062	3,347	0	0	0
United Kingdom	0	0	3,410	0	0	0	0	0
By Truck								
Canada	0	0	0	0	0	3	0	0
Mexico	33	44	19	26	70	61	44	85
Re-Exports								
By Vessel								
Argentina	0	0	0	0	0	0	0	0
Brazil	0	0	0	0	0	0	0	0
India	0	0	0	0	0	0	0	0
Mexico	0	0	0	0	0	0	0	0
Total LNG Exports	45,468	53,592	52,462	60,782	50,669	43,553	52,042	51,342
CNG								
Canada	1	8	16	23	24	27	18	19
Total CNG Exports	1	8	16	23	24	27	18	19
Total Exports	246,919	248,428	253,322	253,864	247,251	271,843	254,946	271,868

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

								2016	
	Total	December	November	October	September	August	July	June	
Exports									
Volume (million cubic feet)									
Pipeline									
Canada	771,094	97,178	74,544	43,471	61,499	55,012	49,750	50,715	
Mexico	1,377,305	111,815	120,378	129,984	123,722	132,446	123,173	115,836	
Total Pipeline Exports	2,148,399	208,993	194,922	173,455	185,222	187,458	172,923	166,551	
LNG									
Exports									
By Vessel									
Argentina	16,661	0	0	0	0	2,190	0	8,161	
Bahamas	0	0	0	0	0	0	0	0	
Barbados	100	22	18	15	14	11	8	2	
Brazil	9,196	0	0	0	0	3,933	0	0	
Chile	29,405	0	2,940	0	0	9,518	6,074	4,643	
China	17,221	6,747	7,341	0	0	0	3,132	0	
Colombia	0	0	0	0	0	0	0	0	
Dominican Republic	2,945	0	0	0	0	2,945	0	0	
Egypt	3,606	3,606	0	0	0	0	0	0	
India	16,915	0	3,115	0	3,639	3,701	0	3,617	
Israel	0	0	0	0	0	0	0	0	
Italy	3,328	0	3,328	0	0	0	0	0	
Japan	11,137	11,137	0	0	0	0	0	0	
Jordan	9,870	0	0	2,942	3,362	0	3,566	0	
Kuwait	7,068	0	0	0	3,458	0	0	0	
Lithuania	0	0	0	0	0	0	0	0	
Malta	0	0	0	0	0	0	0	0	
Mexico	27,470	7,169	13,300	0	3,315	3,686	0	0	
Netherlands	0	0	0	0	0	0	0	0	
Pakistan	0	0	0	0	0	0	0	0	
Panama	0	0	0	0	0	0	0	0	
Poland	0	0	0	0	0	0	0	0	
Portugal	3,700	0	0	0	0	0	0	0	
South Korea	10,166	10,166	0	0	0	0	0	0	
Spain	2,930	0	0	0	0	0	2,930	0	
Taiwan	0	0	0	0	0	0	0	0	
Thailand	0	0	0	0	0	0	0	0	
Turkey	8,762	2,936	2,886	0	2,941	0	0	0	
United Arab Emirates	3,391	0	0	0	0	0	0	0	
United Kingdom	0	0	0	0	0	0	0	0	
By Truck									
Canada	2	0	0	1	0	0	0	0	
Mexico	375	42	48	42	35	30	28	22	
Re-Exports									
By Vessel									
Argentina	612	0	0	0	0	612	0	0	
Brazil	1,433	0	0	0	0	142	0	0	
India	547	0	0	0	0	0	0	0	
Mexico	0	0	0	0	0	0	0	0	
Total LNG Exports	186,841	41,825	32,976	3,000	16,764	26,768	15,739	16,445	
CNG									
Canada	208	18	22	11	0	0	20	18	
Total CNG Exports	208	18	22	11	0	0	20	18	
Total Exports	2,335,448	250,836	227,919	176,466	201,986	214,226	188,682	183,013	

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2016				
	May	April	March	February	January
Exports					
Volume (million cubic feet)					
Pipeline					
Canada	62,768	62,931	81,403	62,192	69,629
Mexico	115,606	104,857	103,413	97,234	98,841
Total Pipeline Exports	178,375	167,789	184,816	159,426	168,470
LNG					
Exports					
By Vessel					
Argentina	0	6,310	0	0	0
Bahamas	0	0	0	0	0
Barbados	1	3	2	2	0
Brazil	0	0	3,270	1,993	0
Chile	6,230	0	0	0	0
China	0	0	0	0	0
Colombia	0	0	0	0	0
Dominican Republic	0	0	0	0	0
Egypt	0	0	0	0	0
India	0	0	2,844	0	0
Israel	0	0	0	0	0
Italy	0	0	0	0	0
Japan	0	0	0	0	0
Jordan	0	0	0	0	0
Kuwait	3,610	0	0	0	0
Lithuania	0	0	0	0	0
Malta	0	0	0	0	0
Mexico	0	0	0	0	0
Netherlands	0	0	0	0	0
Pakistan	0	0	0	0	0
Panama	0	0	0	0	0
Poland	0	0	0	0	0
Portugal	0	3,700	0	0	0
South Korea	0	0	0	0	0
Spain	0	0	0	0	0
Taiwan	0	0	0	0	0
Thailand	0	0	0	0	0
Turkey	0	0	0	0	0
United Arab Emirates	0	0	3,391	0	0
United Kingdom	0	0	0	0	0
By Truck					
Canada	0	0	0	0	2
Mexico	33	23	24	24	25
Re-Exports					
By Vessel					
Argentina	0	0	0	0	0
Brazil	0	0	0	1,290	0
India	0	0	547	0	0
Mexico	0	0	0	0	0
Total LNG Exports	9,874	10,036	10,078	3,309	26
CNG					
Canada	25	28	21	22	25
Total CNG Exports	25	28	21	22	25
Total Exports	188,274	177,853	194,915	162,757	168,521

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2018	2017	2016	2018				
	8-Month YTD	8-Month YTD	8-Month YTD	August	July	June	May	April
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	3.08	3.18	2.31	2.86	2.83	2.75	2.63	2.90
Mexico	3.18	3.24	2.38	3.21	3.03	3.03	3.09	3.01
Total Pipeline Exports	3.15	3.22	2.35	3.11	2.98	2.96	2.99	2.97
LNG								
Exports								
By Vessel								
Argentina	6.01	4.64	4.47	6.61	6.91	--	4.59	5.56
Bahamas	10.39	--	--	10.39	10.39	10.39	10.39	10.39
Barbados	10.39	10.40	10.38	10.39	10.39	10.39	10.39	10.39
Brazil	6.05	4.43	4.39	5.79	5.90	--	6.48	6.33
Chile	4.38	6.12	5.26	--	6.77	3.44	--	4.76
China	4.32	4.48	5.66	3.38	3.53	6.56	4.31	3.67
Colombia	4.86	--	--	6.49	6.70	3.44	--	3.21
Dominican Republic	3.91	5.59	5.41	3.38	--	--	6.80	--
Egypt	3.27	4.93	--	--	--	--	--	--
India	4.71	4.48	4.64	--	6.83	3.44	3.37	6.33
Israel	6.48	--	--	--	--	--	6.48	--
Italy	--	3.95	--	--	--	--	--	--
Japan	6.61	6.78	--	8.25	6.86	6.34	7.11	4.95
Jordan	4.24	4.46	5.81	3.38	--	6.85	3.37	6.63
Kuwait	6.67	4.38	3.27	6.49	--	--	6.76	--
Lithuania	--	4.13	--	--	--	--	--	--
Malta	6.70	4.70	--	--	6.70	--	--	--
Mexico	4.57	5.03	4.23	5.04	4.06	4.58	5.47	3.98
Netherlands	6.33	6.35	--	--	--	--	--	6.33
Pakistan	5.60	3.14	--	--	--	--	6.63	6.33
Panama	5.30	--	--	--	--	--	6.80	--
Poland	--	4.26	--	--	--	--	--	--
Portugal	4.79	6.20	3.58	6.94	--	--	--	--
South Korea	4.26	4.05	--	3.38	3.58	3.44	3.84	3.66
Spain	6.70	5.73	4.92	--	6.70	--	--	--
Taiwan	6.25	4.43	--	--	6.70	6.56	--	--
Thailand	--	3.14	--	--	--	--	--	--
Turkey	3.77	6.16	--	--	--	--	--	--
United Arab Emirates	--	3.87	4.18	--	--	--	--	--
United Kingdom	5.89	3.87	--	--	--	--	--	--
By Truck								
Canada	13.40	8.39	7.41	--	--	--	--	7.79
Mexico	8.09	9.16	9.71	9.81	8.80	7.04	7.18	6.40
Re-Exports								
By Vessel								
Argentina	--	--	4.51	--	--	--	--	--
Brazil	--	--	3.64	--	--	--	--	--
India	--	--	3.98	--	--	--	--	--
Mexico	--	--	--	--	--	--	--	--
Total LNG Exports	4.92	4.97	4.74	5.33	5.28	4.65	5.03	4.56
CNG								
Canada	3.91	5.19	3.30	2.89	2.88	2.63	2.75	4.29
Total CNG Exports	3.91	5.19	3.30	2.89	2.88	2.63	2.75	4.29
Total Exports	3.67	3.57	2.50	3.77	3.72	3.43	3.70	3.46

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2018				2017			
	March	February	January	Total	December	November	October	September
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.63	3.16	4.18	3.12	3.19	2.99	2.78	2.88
Mexico	3.00	3.41	3.64	3.26	3.34	3.29	3.28	3.29
Total Pipeline Exports	2.87	3.31	3.86	3.20	3.28	3.18	3.11	3.14
LNG								
Exports								
By Vessel								
Argentina	6.28	--	--	4.64	--	--	--	--
Bahamas	10.39	10.39	10.39	10.40	10.40	--	--	--
Barbados	10.39	10.39	10.39	10.40	10.40	10.40	10.40	10.40
Brazil	7.46	--	--	4.15	--	--	4.14	3.55
Chile	3.15	4.34	3.27	5.43	3.68	--	3.56	--
China	4.20	5.93	4.84	4.32	4.87	4.60	3.56	3.99
Colombia	--	--	--	--	--	--	--	--
Dominican Republic	3.15	--	--	4.15	--	3.30	--	3.55
Egypt	--	--	3.27	4.93	--	--	--	--
India	5.22	--	3.27	4.84	6.80	4.41	--	--
Israel	--	--	--	--	--	--	--	--
Italy	--	--	--	3.95	--	--	--	--
Japan	--	7.46	3.27	6.13	5.87	--	3.56	--
Jordan	3.15	4.34	--	4.40	3.68	--	5.45	--
Kuwait	--	--	--	4.38	--	--	--	--
Lithuania	--	--	--	3.84	--	--	--	3.55
Malta	--	--	--	4.70	--	--	--	--
Mexico	4.32	4.85	4.43	4.93	3.68	4.85	5.54	3.98
Netherlands	--	--	--	6.35	--	--	--	--
Pakistan	6.28	--	3.27	3.14	--	--	--	--
Panama	3.15	--	--	--	--	--	--	--
Poland	--	--	--	4.26	--	--	--	--
Portugal	--	--	3.27	5.65	--	3.29	--	--
South Korea	3.15	5.85	5.31	4.18	4.20	4.60	4.15	4.05
Spain	--	--	--	4.94	5.73	3.29	3.56	3.55
Taiwan	--	5.89	--	4.77	--	6.41	3.56	--
Thailand	--	--	--	3.14	--	--	--	--
Turkey	--	4.34	3.27	4.84	3.68	3.98	--	3.55
United Arab Emirates	--	--	--	3.87	--	--	--	--
United Kingdom	5.89	--	--	3.87	--	--	--	--
By Truck								
Canada	--	13.63	19.21	8.05	--	7.35	--	--
Mexico	8.03	8.43	7.49	8.74	8.11	7.94	8.43	8.67
Re-Exports								
By Vessel								
Argentina	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--	--
Mexico	--	--	--	5.00	--	--	5.00	--
Total LNG Exports	4.45	5.62	4.34	4.69	4.74	4.47	4.02	3.88
CNG								
Canada	3.48	--	12.47	4.76	6.53	1.38	1.00	--
Total CNG Exports	3.48	--	12.47	4.76	6.53	1.38	1.00	--
Total Exports	3.37	3.93	3.97	3.54	3.68	3.54	3.37	3.30

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

								2017
	August	July	June	May	April	March	February	January
Exports								
Average Price (dollars per thousand cubic feet)								
Pipeline								
Canada	2.84	2.90	3.02	3.16	3.19	3.01	3.22	3.85
Mexico	3.27	3.22	3.13	3.20	3.27	2.93	3.24	3.66
Total Pipeline Exports	3.13	3.12	3.10	3.19	3.24	2.97	3.23	3.74
LNG								
Exports								
By Vessel								
Argentina	--	--	3.87	4.77	4.82	--	--	--
Bahamas	--	--	--	--	--	--	--	--
Barbados	10.40	10.40	10.40	10.40	10.40	10.40	10.40	10.40
Brazil	--	4.23	--	4.63	--	--	--	--
Chile	--	3.67	6.46	--	6.65	6.26	7.18	--
China	--	3.67	--	4.62	--	--	4.92	4.70
Colombia	--	--	--	--	--	--	--	--
Dominican Republic	--	--	--	--	--	5.59	--	--
Egypt	3.55	6.26	--	--	--	--	--	--
India	--	--	4.67	--	--	--	4.06	4.70
Israel	--	--	--	--	--	--	--	--
Italy	3.55	--	4.38	--	--	--	--	--
Japan	6.14	--	6.99	6.88	6.92	--	7.18	6.65
Jordan	3.55	--	--	3.76	--	4.42	4.06	6.41
Kuwait	--	4.51	--	4.77	4.19	3.14	5.50	--
Lithuania	4.13	--	--	--	--	--	--	--
Malta	--	--	--	--	--	--	--	4.70
Mexico	3.55	4.17	4.40	4.67	4.31	5.25	6.40	7.15
Netherlands	--	--	--	6.35	--	--	--	--
Pakistan	--	--	--	--	--	3.14	--	--
Panama	--	--	--	--	--	--	--	--
Poland	--	--	--	4.26	--	--	--	--
Portugal	4.38	6.26	--	6.35	--	--	7.18	7.29
South Korea	3.59	3.67	3.87	4.88	6.39	3.81	--	--
Spain	3.55	6.26	--	--	--	--	7.18	6.28
Taiwan	--	--	--	4.43	--	--	--	--
Thailand	--	--	--	--	--	3.14	--	--
Turkey	--	--	--	--	--	4.60	6.91	--
United Arab Emirates	--	--	--	3.89	3.80	--	--	--
United Kingdom	--	--	3.87	--	--	--	--	--
By Truck								
Canada	--	--	--	--	--	8.39	--	--
Mexico	8.94	8.79	9.04	8.90	8.95	8.64	9.97	9.66
Re-Exports								
By Vessel								
Argentina	--	--	--	--	--	--	--	--
Brazil	--	--	--	--	--	--	--	--
India	--	--	--	--	--	--	--	--
Mexico	--	--	--	--	--	--	--	--
Total LNG Exports	3.88	4.26	4.61	4.80	5.16	4.47	5.99	6.44
CNG								
Canada	2.50	2.72	3.14	3.39	3.35	3.32	7.73	12.97
Total CNG Exports	2.50	2.72	3.14	3.39	3.35	3.32	7.73	12.97
Total Exports	3.27	3.37	3.41	3.57	3.63	3.21	3.79	4.25

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

								2016	
	Total	December	November	October	September	August	July	June	
Exports									
Average Price (dollars per thousand cubic feet)									
Pipeline									
Canada	2.60	3.82	2.71	2.72	2.83	2.65	2.73	2.23	
Mexico	2.64	3.51	2.75	3.16	3.06	2.92	2.80	2.46	
Total Pipeline Exports	2.63	3.65	2.74	3.05	2.99	2.84	2.78	2.39	
LNG									
Exports									
By Vessel									
Argentina	4.47	--	--	--	--	4.51	--	4.71	
Bahamas	--	--	--	--	--	--	--	--	
Barbados	10.12	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
Brazil	4.39	--	--	--	--	5.29	--	--	
Chile	5.30	--	5.64	--	--	5.53	5.82	4.69	
China	4.16	4.50	3.21	--	--	--	5.66	--	
Colombia	--	--	--	--	--	--	--	--	
Dominican Republic	5.41	--	--	--	--	5.41	--	--	
Egypt	6.46	6.46	--	--	--	--	--	--	
India	4.92	--	5.74	--	5.00	5.01	--	4.77	
Israel	--	--	--	--	--	--	--	--	
Italy	6.32	--	6.32	--	--	--	--	--	
Japan	3.76	3.76	--	--	--	--	--	--	
Jordan	5.11	--	--	3.52	5.74	--	5.81	--	
Kuwait	4.40	--	--	--	5.58	--	--	--	
Lithuania	--	--	--	--	--	--	--	--	
Malta	--	--	--	--	--	--	--	--	
Mexico	4.56	4.14	4.64	--	5.53	4.23	--	--	
Netherlands	--	--	--	--	--	--	--	--	
Pakistan	--	--	--	--	--	--	--	--	
Panama	--	--	--	--	--	--	--	--	
Poland	--	--	--	--	--	--	--	--	
Portugal	3.58	--	--	--	--	--	--	--	
South Korea	5.75	5.75	--	--	--	--	--	--	
Spain	4.92	--	--	--	--	--	4.92	--	
Taiwan	--	--	--	--	--	--	--	--	
Thailand	--	--	--	--	--	--	--	--	
Turkey	3.53	3.87	3.30	--	3.41	--	--	--	
United Arab Emirates	4.18	--	--	--	--	--	--	--	
United Kingdom	--	--	--	--	--	--	--	--	
By Truck									
Canada	7.50	--	--	7.70	--	--	--	--	
Mexico	9.81	10.20	9.72	10.06	9.78	9.72	9.76	9.43	
Re-Exports									
By Vessel									
Argentina	4.51	--	--	--	--	4.51	--	--	
Brazil	3.64	--	--	--	--	4.57	--	--	
India	3.98	--	--	--	--	--	--	--	
Mexico	--	--	--	--	--	--	--	--	
Total LNG Exports	4.71	4.68	4.58	3.65	5.11	5.13	5.63	4.72	
CNG									
Canada	3.30	4.72	2.55	2.53	--	--	3.88	2.80	
Total CNG Exports	3.30	4.72	2.55	2.53	--	--	3.88	2.80	
Total Exports	2.79	3.82	3.00	3.06	3.16	3.13	3.02	2.60	

See footnotes at end of table.

Table 5. U.S. natural gas exports, 2016-2018

(volumes in million cubic feet; prices in dollars per thousand cubic feet) – continued

	2016				
	May	April	March	February	January
Exports					
Average Price (dollars per thousand cubic feet)					
Pipeline					
Canada	1.98	2.07	1.99	2.34	2.66
Mexico	2.06	2.03	1.88	2.20	2.45
Total Pipeline Exports	2.03	2.04	1.93	2.26	2.54
LNG					
Exports					
By Vessel					
Argentina	--	4.16	--	--	--
Bahamas	--	--	--	--	--
Barbados	10.00	10.00	15.19	10.00	--
Brazil	--	--	3.83	3.54	--
Chile	4.72	--	--	--	--
China	--	--	--	--	--
Colombia	--	--	--	--	--
Dominican Republic	--	--	--	--	--
Egypt	--	--	--	--	--
India	--	--	3.98	--	--
Israel	--	--	--	--	--
Italy	--	--	--	--	--
Japan	--	--	--	--	--
Jordan	--	--	--	--	--
Kuwait	3.27	--	--	--	--
Lithuania	--	--	--	--	--
Malta	--	--	--	--	--
Mexico	--	--	--	--	--
Netherlands	--	--	--	--	--
Pakistan	--	--	--	--	--
Panama	--	--	--	--	--
Poland	--	--	--	--	--
Portugal	--	3.58	--	--	--
South Korea	--	--	--	--	--
Spain	--	--	--	--	--
Taiwan	--	--	--	--	--
Thailand	--	--	--	--	--
Turkey	--	--	--	--	--
United Arab Emirates	--	--	4.18	--	--
United Kingdom	--	--	--	--	--
By Truck					
Canada	--	--	--	--	7.41
Mexico	9.67	8.99	8.96	10.16	10.96
Re-Exports					
By Vessel					
Argentina	--	--	--	--	--
Brazil	--	--	--	3.54	--
India	--	--	3.98	--	--
Mexico	--	--	--	--	--
Total LNG Exports	4.21	3.96	4.01	3.59	10.74
CNG					
Canada	3.22	2.58	3.05	2.42	5.09
Total CNG Exports	3.22	2.58	3.05	2.42	5.09
Total Exports	2.15	2.15	2.04	2.28	2.54

^R Revised data.

-- Not applicable.

Notes: In the case of missing import or export reports on Form FE-746R, "Import and Export of Natural Gas," EIA estimates the missing volumes using pipeline flows or other available information. LNG re-exports are shipments of LNG to foreign countries that were previously imported, offloaded into above-ground LNG storage tanks, and then subsequently reloaded onto tankers for delivery to other countries. Prices are in nominal dollars. LNG prices are a volume-weighted average of the prices reported by cargo. See the "LNG Monthly" (<https://energy.gov/fe/listings/lng-reports>) from the Office of Fossil Energy, U.S. Department of Energy, for more information on what is included in the individual LNG prices.

Source: Office of Fossil Energy, U.S. Department of Energy, "Natural Gas Imports and Exports."

Table 6. Gross withdrawals of natural gas in selected states and the Federal Gulf of Mexico, 2013-2018

(million cubic feet)

Year and Month	Alaska	Arkansas	California	Colorado	Kansas	Louisiana	Montana	New Mexico	North Dakota	Ohio
2013 Total	3,215,358	1,139,654	252,310	1,604,860	292,467	2,366,943	63,242	1,247,394	345,787	166,017
2014 Total	3,168,545	1,122,733	238,988	1,643,487	286,480	1,968,618	59,160	1,266,379	463,216	512,371
2015 Total	3,175,301	1,010,382	236,648	1,688,733	284,184	1,813,232	58,240	1,296,793	584,632	1,007,270
2016										
January	298,815	77,592	18,222	144,485	21,498	154,113	4,611	99,998	50,905	116,293
February	273,298	71,658	16,831	133,847	20,005	146,013	4,307	98,407	49,040	108,791
March	295,235	74,247	17,699	142,980	21,399	153,587	4,587	109,588	53,093	116,293
April	246,130	70,504	16,358	139,228	20,338	154,360	4,416	106,101	48,915	114,315
May	269,206	71,555	18,102	143,542	20,897	151,643	4,508	108,921	51,010	118,125
June	233,815	67,073	16,791	135,945	20,067	140,782	4,268	105,475	49,945	114,315
July	239,442	68,009	17,456	139,649	20,594	157,148	4,375	109,500	52,657	125,833
August	250,381	66,959	17,328	142,233	20,344	145,060	4,129	111,476	50,847	125,833
September	249,275	63,989	16,728	136,568	20,854	145,726	4,166	108,062	48,416	121,774
October	271,920	65,709	16,891	145,443	19,989	151,308	4,341	110,173	53,354	126,599
November	294,151	62,826	16,194	140,988	18,898	143,001	4,264	107,020	52,901	122,515
December	308,524	63,075	16,424	143,468	19,911	150,664	4,175	107,945	47,767	126,599
Total	3,230,193	823,196	205,025	1,688,375	244,795	1,793,406	52,146	1,282,666	608,849	1,437,285
2017										
January	301,493	61,608	16,691	142,790	19,044	162,990	4,135	105,653	48,477	132,135
February	275,044	55,911	15,634	128,838	17,280	141,567	3,777	97,589	48,102	119,348
March	308,111	61,608	17,688	142,161	19,077	177,967	4,168	110,479	53,891	132,135
April	286,963	59,905	17,281	136,409	18,063	155,363	4,087	107,283	55,188	132,359
May	286,678	61,319	17,796	138,439	18,451	162,999	4,235	113,939	57,606	136,771
June	248,829	59,366	17,229	134,382	18,281	168,309	4,126	108,071	55,673	132,359
July	205,707	60,612	19,987	140,105	18,854	167,283	4,247	112,631	58,915	159,314
August	221,579	59,937	17,558	143,311	18,600	183,079	4,277	111,163	60,597	159,314
September	255,362	56,568	17,145	140,164	17,969	189,429	4,054	111,084	58,407	154,174
October	283,192	58,056	18,316	147,258	16,696	212,769	4,155	117,049	64,060	173,541
November	282,589	55,511	16,767	142,452	16,056	207,876	3,970	109,644	62,980	167,942
December	295,221	56,890	17,235	151,359	16,108	217,981	3,989	120,322	64,709	173,541
Total	3,250,769	707,292	209,327	1,687,667	214,480	2,147,612	49,218	1,324,909	688,605	1,772,932
2018										
January	296,763	€51,757	€16,821	€151,072	€17,495	€211,270	€3,927	€113,537	€64,221	€183,232
February	268,604	€46,612	€15,370	€136,802	€15,831	€200,831	€3,478	€106,157	€58,668	€171,082
March	295,802	€51,018	€16,903	€151,348	€17,607	€230,892	€3,783	€123,241	€65,547	€190,999
April	282,720	€51,363	€16,313	€148,397	€17,079	€224,143	€3,738	€121,113	€67,360	€184,005
May	282,751	€51,483	€16,948	€154,111	€17,598	€239,895	€3,934	€124,029	€72,213	€191,843
June	229,020	€49,106	€16,421	€144,180	€16,144	€232,868	€3,734	€123,048	€68,891	€186,149
July	234,050	€49,707	€16,929	€151,957	€17,505	€248,609	€4,011	€132,498	€73,939	€200,511
August	242,885	€49,826	€16,903	€155,641	€17,160	€252,014	€4,035	€135,251	€75,133	€203,451
2018 8-Month YTD	2,132,595	€400,873	€132,607	€1,193,508	€136,420	€1,840,522	€30,640	€978,875	€545,973	€1,511,272
2017 8-Month YTD	2,134,405	480,267	139,864	1,106,434	147,651	1,319,557	33,051	866,809	438,449	1,103,735
2016 8-Month YTD	2,106,323	567,598	138,787	1,121,908	165,142	1,202,707	35,201	849,467	406,410	939,798

See footnotes at end of table.

Table 6. Gross withdrawals of natural gas in selected states and the Federal Gulf of Mexico, 2013-2018
(million cubic feet) – continued

Year and Month	Oklahoma	Pennsylvania	Texas	Utah	West Virginia	Wyoming	Other States	Federal Gulf of Mexico	U.S. Total
2013 Total	1,993,754	3,259,042	8,299,472	470,863	741,853	2,047,757	689,082	1,326,697	29,522,551
2014 Total	2,331,086	4,257,693	8,659,188	454,545	1,067,114	1,998,505	631,536	1,275,738	31,405,381
2015 Total	2,499,599	4,812,983	8,799,465	417,020	1,315,248	1,995,920	611,356	1,307,641	32,914,647
2016									
January	214,000	442,434	709,938	33,692	116,943	163,388	50,050	106,127	2,823,104
February	201,258	426,244	666,642	30,756	109,571	151,068	47,820	98,287	2,653,842
March	214,561	444,309	708,832	32,961	113,695	164,016	49,521	108,380	2,824,983
April	203,524	426,424	681,793	31,448	112,470	155,715	47,633	98,939	2,678,610
May	211,836	439,310	701,679	31,673	116,018	153,550	48,419	107,850	2,767,844
June	202,081	431,137	678,190	29,730	104,660	152,538	46,193	95,158	2,628,164
July	210,617	440,575	693,378	30,376	119,034	143,881	47,486	101,199	2,721,210
August	211,218	439,910	688,855	30,330	121,035	145,537	47,732	103,424	2,722,631
September	202,202	414,330	656,230	28,875	115,466	151,851	46,417	95,284	2,626,213
October	206,225	417,455	675,365	29,216	117,061	160,094	46,916	102,131	2,720,187
November	195,366	431,708	645,281	27,880	116,843	152,711	46,361	99,339	2,678,247
December	195,424	456,371	650,116	28,332	121,664	154,274	47,272	104,539	2,746,543
Total	2,468,312	5,210,209	8,156,296	365,268	1,384,458	1,848,623	571,820	1,220,656	32,591,578
2017									
January	193,927	460,918	648,850	27,703	123,989	148,233	47,062	102,987	2,748,684
February	179,163	415,355	600,163	25,039	112,378	136,489	43,038	90,210	2,504,926
March	207,995	460,321	659,935	27,541	126,645	152,801	46,020	103,119	2,811,662
April	203,362	447,576	645,039	26,632	121,705	148,606	44,942	92,253	2,703,018
May	207,889	458,392	673,537	27,553	131,952	147,115	45,864	96,498	2,787,032
June	203,690	443,483	661,942	26,320	130,111	148,655	44,055	88,406	2,693,285
July	213,003	457,004	692,994	26,480	136,091	151,986	43,157	95,280	2,763,649
August	218,247	450,180	675,036	26,376	143,578	153,381	44,419	90,190	2,780,821
September	211,644	443,450	664,234	25,376	139,445	149,107	43,781	85,952	2,767,345
October	226,421	447,617	690,921	25,908	144,282	154,561	43,669	78,293	2,906,765
November	220,016	473,760	680,803	24,692	142,990	153,924	42,894	79,262	2,884,127
December	228,540	505,832	702,282	25,114	147,884	159,824	43,552	75,679	3,006,062
Total	2,513,897	5,463,888	7,995,736	314,733	1,601,047	1,804,681	532,453	1,078,130	33,357,375
2018									
January	E227,286	E500,205	E682,935	E25,601	E141,628	E150,657	E42,447	E78,466	E2,959,321
February	E210,361	E461,491	E627,460	E23,088	E130,261	E134,640	E39,077	E73,749	E2,723,563
March	E240,653	E504,670	E705,295	E26,087	E146,465	E150,489	E44,572	E82,685	E3,048,056
April	E235,092	E491,030	E692,906	E25,100	E138,210	E145,180	E41,853	E74,284	E2,959,887
May	E243,974	E498,922	E739,934	E25,416	E150,963	E147,038	E43,201	E77,499	E3,081,754
June	RE241,563	RE493,551	RE723,434	RE24,670	RE143,939	RE137,975	E42,150	RE78,100	RE2,954,943
July	RE252,008	RE525,478	RE758,977	RE25,119	RE143,239	RE141,757	E42,429	RE87,971	RE3,106,695
August	E258,669	E534,914	E772,171	E25,127	E155,874	E142,608	E43,750	E93,430	E3,178,843
2018 8-Month YTD	E1,909,607	E4,010,260	E5,703,112	E200,210	E1,150,579	E1,150,345	E339,478	E646,186	E24,013,061
2017 8-Month YTD	1,627,275	3,593,230	5,257,495	213,643	1,026,447	1,187,265	358,556	758,944	21,793,077
2016 8-Month YTD	1,669,096	3,490,344	5,529,305	250,966	913,425	1,229,693	384,855	819,364	21,820,388

^E Estimated data.

^{RE} Revised estimated data.

Notes: Data for Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and Federal Offshore Gulf of Mexico are individually collected on the EIA-914 survey. The "Other States" category comprises states/areas not individually collected on the EIA-914 survey (Alabama, Arizona, Federal Offshore Pacific, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia). Before 2018, Federal Offshore Pacific is included in California. All data for Alaska are obtained directly from the state. Monthly preliminary state-level data for all states not collected individually on the EIA-914 survey are available after the final annual reports for these series are collected and processed. Final annual data are generally available in the third quarter of the following year. The sum of individual states may not equal total U.S. volumes due to independent rounding.

Sources: 2013-2017: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2017*, Bureau of Safety and Environmental Enforcement (BSEE), PointLogic Energy, and BENTEK Energy. January 2018 through current month: Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"; and EIA computations.

Table 7. Marketed production of natural gas in selected states and the Federal Gulf of Mexico, 2013-2018
(million cubic feet)

Year and Month	Alaska	Arkansas	California	Colorado	Kansas	Louisiana	Montana	New Mexico	North Dakota	Ohio
2013 Total	338,182	1,139,654	252,310	1,604,860	292,467	2,360,202	63,242	1,171,640	235,711	166,017
2014 Total	345,310	1,122,733	238,988	1,643,487	286,480	1,960,813	59,160	1,229,519	326,491	512,371
2015 Total	343,625	1,010,382	236,648	1,688,733	284,184	1,805,197	51,356	1,245,145	471,360	1,007,270
2016										
January	30,686	77,592	18,222	144,191	21,498	153,337	4,267	94,728	43,621	116,293
February	28,434	71,658	16,831	133,677	20,005	145,451	3,960	93,658	42,951	108,791
March	29,898	74,247	17,699	142,795	21,399	152,860	4,214	104,259	47,266	116,293
April	26,258	70,504	16,358	139,031	20,338	153,585	4,083	101,796	44,024	114,315
May	27,088	71,555	18,102	143,350	20,897	150,858	4,086	104,054	44,698	118,125
June	24,882	67,073	16,791	135,713	20,067	139,980	3,987	100,265	44,293	114,315
July	25,025	68,009	17,456	139,430	20,594	156,387	4,045	104,706	46,331	125,833
August	24,969	66,959	17,328	142,030	20,344	144,306	3,618	107,465	44,343	125,833
September	24,970	63,989	16,728	136,361	20,854	144,983	3,770	104,161	42,231	121,774
October	28,546	65,709	16,891	145,195	19,989	150,567	3,993	107,846	44,919	126,599
November	30,380	62,826	16,194	140,755	18,898	142,225	3,977	102,881	46,694	122,515
December	31,612	63,075	16,424	143,226	19,911	149,857	3,922	103,829	40,625	126,599
Total	332,749	823,196	205,025	1,685,755	244,795	1,784,396	47,921	1,229,647	531,997	1,437,285
2017										
January	31,022	61,608	16,691	142,554	19,044	162,163	3,889	101,810	41,899	132,135
February	28,145	55,911	15,634	128,554	17,280	140,873	3,530	94,177	42,317	119,348
March	31,344	61,608	17,688	141,880	19,077	177,195	3,897	108,214	47,675	132,135
April	30,373	59,905	17,281	136,194	18,063	154,875	3,773	104,963	48,931	132,359
May	30,399	61,319	17,796	138,206	18,451	162,291	3,965	111,425	50,770	136,771
June	27,509	59,366	17,229	133,912	18,281	167,599	3,863	105,266	48,471	132,359
July	24,025	60,612	19,987	139,706	18,854	166,507	3,990	110,185	51,351	159,314
August	24,427	59,937	17,558	142,957	18,600	182,309	4,022	108,861	51,769	159,314
September	27,205	56,568	17,145	139,869	17,969	188,756	3,757	108,947	48,483	154,174
October	29,536	58,056	18,316	146,976	16,696	211,980	3,866	114,741	52,713	173,541
November	29,760	55,511	16,767	141,944	16,056	207,106	3,760	106,936	54,010	167,942
December	30,640	56,890	17,235	150,637	16,108	217,263	3,777	117,515	55,665	173,541
Total	344,385	707,292	209,327	1,683,388	214,480	2,138,918	46,090	1,293,040	594,053	1,772,932
2018										
January	31,077	€51,757	€16,821	€150,695	€17,495	€210,425	€3,677	€110,801	€55,403	€183,232
February	27,724	€46,612	€15,370	€136,460	€15,831	€200,028	€3,257	€103,599	€50,613	€171,082
March	30,900	€51,018	€16,903	€150,969	€17,607	€229,968	€3,542	€120,271	€56,547	€190,999
April	28,913	€51,363	€16,313	€148,026	€17,079	€223,247	€3,500	€118,195	€58,111	€184,005
May	28,833	€51,483	€16,948	€153,726	€17,598	€238,935	€3,684	€121,040	€62,299	€191,843
June	26,045	€49,106	€16,421	€143,820	€16,144	€231,937	€3,497	€120,082	€59,432	€186,149
July	26,116	€49,707	€16,929	€151,577	€17,505	€247,615	€3,756	€129,304	€63,787	€200,511
August	26,127	€49,826	€16,903	€155,252	€17,160	€251,006	€3,779	€131,992	€64,817	€203,451
2018 8-Month YTD	225,736	€400,873	€132,607	€1,190,524	€136,420	€1,833,160	€28,692	€955,284	€471,011	€1,511,272
2017 8-Month YTD	227,244	480,267	139,864	1,103,962	147,651	1,313,813	30,930	844,902	383,182	1,103,735
2016 8-Month YTD	217,240	567,598	138,787	1,120,218	165,142	1,196,765	32,259	810,930	357,528	939,798

See footnotes at end of table.

Table 7. Marketed production of natural gas in selected states and the Federal Gulf of Mexico, 2013-2018

(million cubic feet) – continued

Year and Month	Oklahoma	Pennsylvania	Texas	Utah	West Virginia	Wyoming	Other States	Federal Gulf of Mexico	U.S. Total
2013 Total	1,993,754	3,259,042	7,633,618	470,863	741,853	1,858,207	671,364	1,309,246	25,562,232
2014 Total	2,331,086	4,257,693	7,985,019	454,545	1,067,114	1,794,413	628,854	1,253,678	27,497,754
2015 Total	2,499,599	4,812,983	7,890,459	417,020	1,315,248	1,808,519	592,373	1,291,945	28,772,044
2016									
January	214,000	442,434	622,924	33,692	116,943	147,676	48,850	104,422	2,435,375
February	201,258	426,244	596,319	30,756	109,571	137,429	46,815	96,715	2,310,521
March	214,561	444,309	622,809	32,961	113,695	147,394	48,469	106,846	2,441,976
April	203,524	426,424	612,599	31,448	112,470	140,677	46,664	97,457	2,361,554
May	211,836	439,310	618,479	31,673	116,018	138,420	47,540	106,386	2,412,475
June	202,081	431,137	601,588	29,730	104,660	137,007	45,387	93,331	2,312,288
July	210,617	440,575	624,567	30,376	119,034	130,346	46,573	99,010	2,408,915
August	211,218	439,910	609,656	30,330	121,035	131,856	46,708	101,907	2,389,813
September	202,202	414,330	581,717	28,875	115,466	135,764	45,464	93,762	2,297,402
October	206,225	417,455	594,772	29,216	117,061	143,151	45,933	100,613	2,364,679
November	195,366	431,708	568,877	27,880	116,843	136,200	45,364	97,909	2,307,494
December	195,424	456,371	571,165	28,332	121,664	136,987	46,220	102,311	2,357,556
Total	2,468,312	5,210,209	7,225,472	365,268	1,384,458	1,662,909	559,985	1,200,669	28,400,049
2017									
January	193,927	460,918	562,977	27,703	123,989	125,802	45,868	101,371	2,355,370
February	179,163	415,355	521,489	25,039	112,378	115,936	41,938	88,458	2,145,526
March	207,995	460,321	592,173	27,541	126,645	129,287	44,722	101,586	2,430,983
April	203,362	447,576	583,129	26,632	121,705	131,381	43,761	90,802	2,355,065
May	207,889	458,392	600,541	27,553	131,952	131,989	44,643	95,171	2,429,523
June	203,690	443,483	591,282	26,320	130,111	131,082	42,967	86,831	2,369,620
July	213,003	457,004	621,007	26,480	136,091	134,587	42,014	93,910	2,478,626
August	218,247	450,180	602,991	26,376	143,578	134,827	43,286	88,800	2,478,038
September	211,644	443,450	593,431	25,376	139,445	130,690	42,620	84,476	2,434,007
October	226,421	447,617	623,160	25,908	144,282	137,608	42,363	76,533	2,550,312
November	220,016	473,760	615,496	24,692	142,990	138,440	41,775	78,022	2,534,983
December	228,540	505,832	627,818	25,114	147,884	143,856	42,334	74,340	2,634,990
Total	2,513,897	5,463,888	7,135,494	314,733	1,601,047	1,585,486	518,291	1,060,300	29,197,042
2018									
January	E227,286	E500,205	E609,451	E25,601	E141,628	E132,352	E41,326	E77,172	E2,586,405
February	E210,361	E461,491	E559,945	E23,088	E130,261	E118,281	E38,046	E72,532	E2,384,581
March	E240,653	E504,670	E629,405	E26,087	E146,465	E132,204	E43,395	E81,321	E2,672,927
April	E235,092	E491,030	E618,349	E25,100	E138,210	E127,541	E40,748	E73,059	E2,597,880
May	E243,974	E498,922	E660,317	E25,416	E150,963	E129,173	E42,060	E76,220	E2,713,435
June	RE241,563	RE493,551	RE645,593	RE24,670	RE143,939	RE121,211	E41,037	RE76,811	RE2,641,008
July	RE252,008	RE525,478	RE677,311	RE25,119	RE143,239	RE124,534	E41,309	RE86,520	RE2,782,326
August	E258,669	E534,914	E689,085	E25,127	E155,874	E125,281	E42,595	E91,889	E2,843,746
2018 8-Month YTD	E1,909,607	E4,010,260	E5,089,457	E200,210	E1,150,579	E1,010,578	E330,516	E635,524	E21,222,308
2017 8-Month YTD	1,627,275	3,593,230	4,675,589	213,643	1,026,447	1,034,891	349,198	746,929	19,042,751
2016 8-Month YTD	1,669,096	3,490,344	4,908,941	250,966	913,425	1,110,806	377,004	806,073	19,072,918

^E Estimated data.^{RE} Revised estimated data.

Notes: For 2018 forward, state monthly marketed production is estimated from gross withdrawals using historical relationships between the two. Data for Arkansas, California, Colorado, Kansas, Louisiana, Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and Federal Offshore Gulf of Mexico are individually collected on the EIA-914 survey. The "Other States" category comprises states/areas not individually collected on the EIA-914 survey (Alabama, Arizona, Federal Offshore Pacific, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia). Before 2018, Federal Offshore Pacific is included in California. All data for Alaska are obtained directly from the state. Monthly preliminary state-level data for all states not collected individually on the EIA-914 survey are available after the final annual reports for these series are collected and processed. Final annual data are generally available in the third quarter of the following year. The sum of individual states may not equal total U.S. volumes due to independent rounding.

Sources: 2013-2017: U.S. Energy Information Administration (EIA), *Natural Gas Annual 2017*, Bureau of Safety and Environmental Enforcement (BSEE), PointLogic Energy, and BENTEK Energy. January 2018 through current month: Form EIA-914, "Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"; and EIA computations.

Table 8. Underground natural gas storage – all operators, 2013-2018
(volumes in billion cubic feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total ^c	Volume	Percent	Injections	Withdrawals	Net Withdrawals ^b
2013 Total^c	--	--	--	--	--	3,156	3,702	546
2014 Total^c	--	--	--	--	--	3,839	3,586	-253
2015 Total^c	--	--	--	--	--	3,638	3,100	-539
2016								
January	4,369	2,938	7,307	531	22.1	66	795	729
February	4,369	2,534	6,904	869	52.2	111	515	403
March	4,360	2,486	6,847	1,015	69.0	215	264	49
April	4,364	2,646	7,009	852	47.5	294	130	-164
May	4,366	2,966	7,332	679	29.7	402	74	-329
June	4,369	3,186	7,555	539	20.4	316	94	-222
July	4,369	3,318	7,687	394	13.5	283	150	-133
August	4,369	3,441	7,811	200	6.2	285	162	-124
September	4,369	3,705	8,074	91	2.5	351	88	-262
October	4,371	4,013	8,384	70	1.8	387	78	-308
November	4,372	3,977	8,349	50	1.3	178	213	35
December	4,380	3,297	7,677	-370	-10.1	87	762	676
Total	--	--	--	--	--	2,977	3,325	348
2017								
January	4,378	2,622	7,000	-316	-10.8	113	787	675
February	4,377	2,337	6,715	-197	-7.8	137	422	285
March	4,378	2,063	6,440	-424	-17.0	175	449	274
April	4,379	2,291	6,670	-354	-13.4	352	122	-230
May	4,385	2,627	7,011	-340	-11.5	430	90	-341
June	4,354	2,907	7,261	-279	-8.8	386	105	-281
July	4,356	3,054	7,410	-264	-8.0	303	154	-150
August	4,355	3,250	7,605	-191	-5.6	353	158	-196
September	4,355	3,567	7,923	-138	-3.7	419	103	-317
October	4,354	3,816	8,170	-196	-4.9	378	131	-247
November	4,353	3,709	8,062	-267	-6.7	199	285	86
December	4,360	3,033	7,392	-264	-8.0	91	785	695
Total	--	--	--	--	--	3,337	3,590	254
2018								
January	4,357	2,141	6,498	-481	-18.4	141	1,037	896
February	4,357	1,673	6,030	-664	-28.4	133	599	467
March	^R 4,353	^R 1,391	^R 5,744	^R -672	^R -32.6	164	449	285
April	4,350	1,427	5,778	-864	-37.7	256	224	-32
May	4,352	1,848	6,200	-779	^R -29.7	489	66	-423
June	4,354	^R 2,196	6,550	-711	-24.5	436	88	^R -349
July	4,355	2,382	^R 6,737	^R -672	-22.0	362	175	-186
August	4,356	2,617	6,973	-633	-19.5	407	172	-235

^a Total underground storage capacity at the end of each calendar year (in billion cubic feet): 2013 – 9,173; 2014 – 9,233; 2015- 9,231; 2016 – 9,239; and 2017 – 9,261. Total storage capacity of existing fields includes both active and inactive fields.

^b Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

^c Total as of December 31.

^R Revised data.

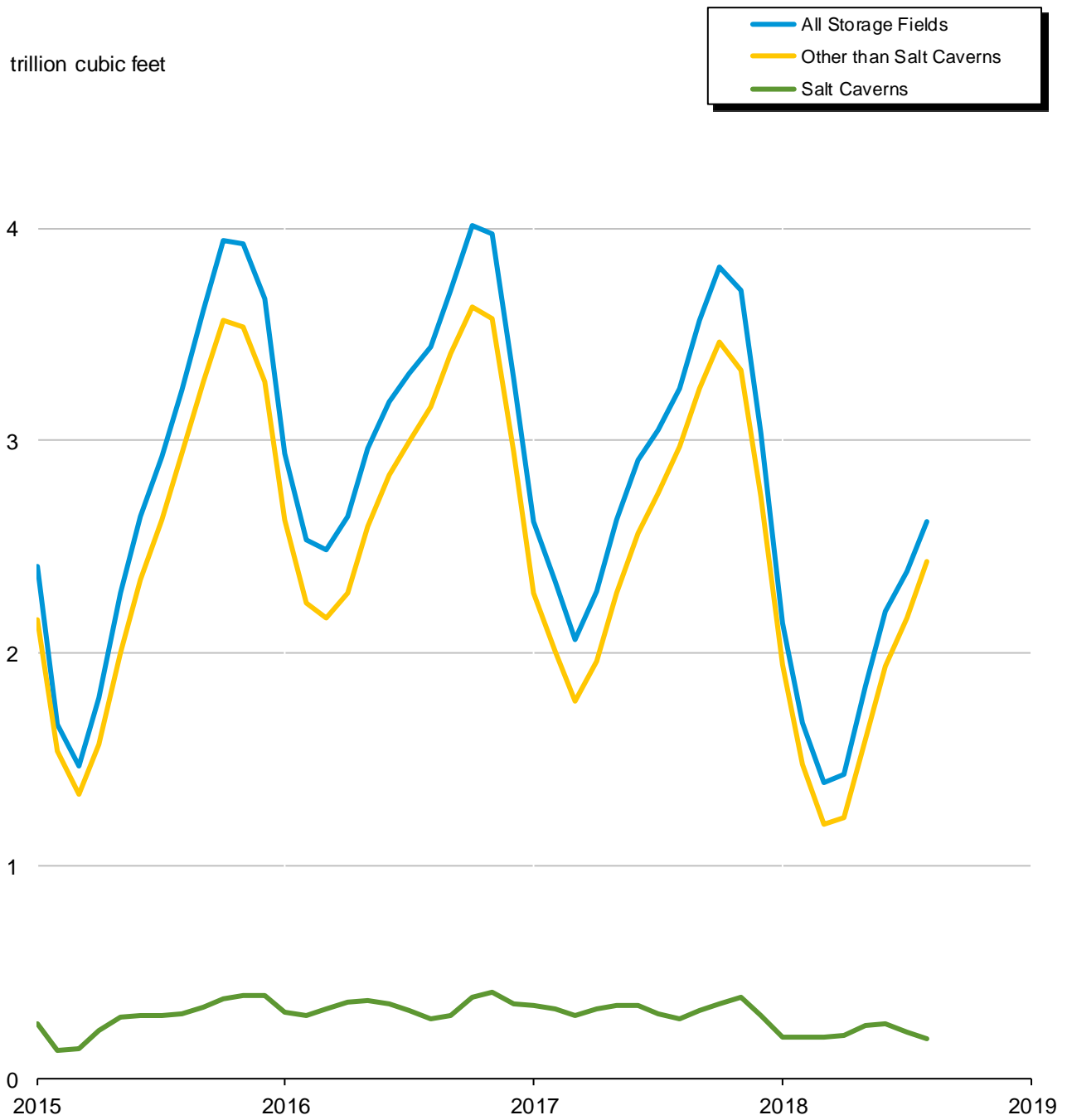
-- Not applicable.

Notes: Data for 2013 through 2016 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Alaska added to U.S. totals as of January 2013. Change in Working Gas from Same Period, Previous Year, includes data for Alaska, which had no working gas recorded for periods prior to January 2013.

Source: U.S. Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Figure 5. Working gas in underground natural gas storage in the United States, 2015-2018

Figure 5



Note: Geographic coverage is the 50 states and the District of Columbia.
Source: Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 9. Underground natural gas storage – by season, 2016-2018

(volumes in billion cubic feet)

Year, Season, and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals ^a
2016 Refill Season								
April	4,364	2,646	7,009	852	47.5	294	130	-164
May	4,366	2,966	7,332	679	29.7	402	74	-329
June	4,369	3,186	7,555	539	20.4	316	94	-222
July	4,369	3,318	7,687	394	13.5	283	150	-133
August	4,369	3,441	7,811	200	6.2	285	162	-124
September	4,369	3,705	8,074	91	2.5	351	88	-262
October	4,371	4,013	8,384	70	1.8	387	78	-308
Total	--	--	--	--	--	2,319	776	-1,543
2017 Heating Season								
November	4,372	3,977	8,349	50	1.3	178	213	35
December	4,380	3,297	7,677	-370	-10.1	87	762	676
January	4,378	2,622	7,000	-316	-10.8	113	787	675
February	4,377	2,337	6,715	-197	-7.8	137	422	285
March	4,378	2,063	6,440	-424	-17.0	175	449	274
Total	--	--	--	--	--	689	2,634	1,945
2017 Refill Season								
April	4,379	2,291	6,670	-354	-13.4	352	122	-230
May	4,385	2,627	7,011	-340	-11.5	430	90	-341
June	4,354	2,907	7,261	-279	-8.8	386	105	-281
July	4,356	3,054	7,410	-264	-8.0	303	154	-150
August	4,355	3,250	7,605	-191	-5.6	353	158	-196
September	4,355	3,567	7,923	-138	-3.7	419	103	-317
October	4,354	3,816	8,170	-196	-4.9	378	131	-247
Total	--	--	--	--	--	2,622	861	-1,761
2018 Heating Season								
November	4,353	3,709	8,062	-267	-6.7	199	285	86
December	4,360	3,033	7,392	-264	-8.0	91	785	695
January	4,357	2,141	6,498	-481	-18.4	141	1,037	896
February	4,357	1,673	6,030	-664	-28.4	133	599	467
March	R4,353	R1,391	R5,744	R-672	R-32.6	164	449	285
Total	--	--	--	--	--	727	3,155	2,428
2018 Refill Season								
April	4,350	1,427	5,778	-864	-37.7	256	224	-32
May	4,352	1,848	6,200	-779	R-29.7	489	66	-423
June	4,354	R2,196	6,550	-711	-24.5	436	88	R-349
July	4,355	2,382	R6,737	R-672	-22.0	362	175	-186
August	4,356	2,617	6,973	-633	-19.5	407	172	-235

^a Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

^R Revised data.

-- Not applicable.

Notes: Data for 2016 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Alaska added to U.S. totals as of January 2013.

Sources: U.S. Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 10. Underground natural gas storage – salt cavern storage fields, 2013-2018
(volumes in billion cubic feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals ^a
2013 Total^b	--	--	--	--	--	492	521	29
2014 Total^b	--	--	--	--	--	634	552	-82
2015 Total^b	--	--	--	--	--	606	550	-56
2016								
January	189	312	501	60	23.7	29	105	76
February	190	295	485	168	132.8	42	58	16
March	190	322	513	184	133.0	67	39	-28
April	191	358	550	138	62.4	66	27	-38
May	192	368	560	84	29.8	46	35	-10
June	192	348	541	51	17.1	26	45	19
July	192	319	511	22	7.3	32	62	29
August	193	281	474	-20	-6.5	33	69	37
September	194	295	489	-38	-11.3	52	37	-14
October	194	383	577	7	1.9	115	26	-89
November	195	402	598	13	3.4	47	28	-20
December	195	349	544	-39	-10.0	38	92	53
Total	--	--	--	--	--	593	624	32
2017								
January	195	338	533	26	8.3	69	80	11
February	195	328	522	33	11.0	43	53	10
March	196	292	487	-31	-9.5	51	86	35
April	197	326	523	-32	-9.0	79	43	-36
May	197	343	539	-25	-6.8	65	49	-16
June	196	339	535	-9	-2.7	48	51	4
July	198	304	502	-15	-4.7	32	66	34
August	198	279	477	-2	-0.8	42	67	24
September	197	318	515	23	7.7	79	41	-38
October	197	350	548	-33	-8.5	84	51	-33
November	197	379	576	-24	-5.9	66	38	-28
December	197	297	493	-52	-14.9	44	127	83
Total	--	--	--	--	--	701	752	50
2018								
January	195	192	388	-145	-43.0	84	189	105
February	196	196	392	-131	-40.1	60	55	-5
March	^R 194	^R 193	^R 387	^R -99	^R -33.9	57	61	3
April	194	203	397	-123	-37.7	63	54	-8
May	195	249	444	-93	-27.2	79	31	-47
June	195	256	451	-83	-24.6	49	44	-6
July	196	214	410	-90	-29.5	35	77	41
August	196	188	384	-91	-32.7	44	71	27
2018 8-Month YTD	--	--	--	--	--	471	581	111
2017 8-Month YTD	--	--	--	--	--	429	495	66
2016 8-Month YTD	--	--	--	--	--	340	441	101

^a Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

^b Total as of December 31.

^R Revised data.

-- Not applicable.

Notes: Data for 2013 through 2016 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Alaska added to U.S. totals as of January 2013.

Sources: U.S. Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 11. Underground natural gas storage – storage fields other than salt caverns, 2013-2018
(volumes in billion cubic feet)

Year and Month	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals ^a
2013 Total^b	--	--	--	--	--	2,664	3,181	517
2014 Total^b	--	--	--	--	--	3,205	3,034	-171
2015 Total^b	--	--	--	--	--	3,032	2,549	-482
2016								
January	4,180	2,626	6,806	471	21.9	37	689	652
February	4,180	2,239	6,419	700	45.5	69	456	387
March	4,170	2,164	6,334	831	62.3	149	225	77
April	4,172	2,287	6,460	715	45.5	229	103	-126
May	4,174	2,599	6,773	595	29.7	357	39	-318
June	4,176	2,838	7,014	489	20.8	291	49	-241
July	4,176	2,999	7,176	372	14.2	251	88	-163
August	4,177	3,160	7,337	219	7.5	253	92	-160
September	4,175	3,410	7,585	129	3.9	299	51	-248
October	4,177	3,630	7,807	63	1.8	271	52	-220
November	4,177	3,574	7,751	37	1.0	131	185	55
December	4,185	2,948	7,133	-331	-10.1	48	670	622
Total	--	--	--	--	--	2,384	2,700	316
2017								
January	4,183	2,284	6,468	-342	-13.0	44	708	664
February	4,183	2,010	6,192	-230	-10.2	94	369	275
March	4,182	1,771	5,953	-393	-18.2	124	364	239
April	4,182	1,965	6,147	-322	-14.1	273	79	-194
May	4,188	2,284	6,472	-315	-12.1	365	40	-325
June	4,158	2,568	6,725	-270	-9.5	338	53	-284
July	4,158	2,750	6,908	-249	-8.3	272	88	-184
August	4,158	2,971	7,129	-189	-6.0	311	91	-220
September	4,158	3,250	7,408	-161	-4.7	340	62	-279
October	4,156	3,466	7,622	-164	-4.5	295	80	-215
November	4,156	3,330	7,487	-244	-6.8	133	247	114
December	4,163	2,736	6,899	-212	-7.2	47	659	612
Total	--	--	--	--	--	2,635	2,839	203
2018								
January	4,162	1,948	6,110	-336	-14.7	57	848	791
February	4,161	1,477	5,638	-533	-26.5	73	544	471
March	4,159	1,198	5,357	-573	-32.3	107	388	282
April	4,156	1,224	5,381	-741	-37.7	193	170	-23
May	4,157	1,598	^R 5,755	^R -686	-30.0	410	35	^R -376
June	4,159	1,940	6,099	-628	^R -24.4	^R 387	44	-343
July	4,159	2,167	^R 6,327	-583	-21.2	326	99	-228
August	4,159	2,430	6,589	-541	-18.2	363	101	-262
2018 8-Month YTD	--	--	--	--	--	1,916	2,228	312
2017 8-Month YTD	--	--	--	--	--	1,821	1,792	-29
2016 8-Month YTD	--	--	--	--	--	1,634	1,742	107

^a Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

^b Total as of December 31.

^R Revised data.

-- Not applicable.

Notes: Data for 2013 through 2016 are final. All other data are preliminary unless otherwise noted. See Appendix A, Explanatory Note 5, for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Alaska added to U.S. totals as of January 2013.

Sources: U.S. Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 12. Net withdrawals from underground storage, by state, 2016-2018
(million cubic feet)

State	2018						
	August	July	June	May	April	March	February
Alabama	3,070	2,879	1,165	-3,590	-2,801	-2,192	885
Alaska ^a	-1,795	-1,862	-1,749	-856	25	1,020	1,988
Arkansas	-931	-793	-838	-917	-193	776	616
California	290	8,376	-18,473	-29,083	-18,639	10,696	25,368
Colorado	-5,997	-2,338	-6,154	-6,557	127	4,370	9,346
Illinois	-34,744	-28,754	-29,674	-20,284	7,769	31,354	43,006
Indiana	-4,155	-2,826	-3,023	-1,240	542	3,497	4,115
Iowa	-15,538	-1,673	-1,593	-2,828	1,387	6,081	9,545
Kansas	-13,675	-12,141	-12,300	-12,254	-1,471	9,818	19,645
Kentucky	-4,460	-2,846	-5,514	-10,612	3,827	312	8,578
Louisiana	-4,409	7,158	-17,984	-42,445	7,969	7,193	16,429
Maryland	-2,598	-2,904	-3,246	-1,661	654	1,983	2,961
Michigan	-74,298	-76,375	-75,997	-75,307	15,716	77,908	107,038
Minnesota	-269	-221	-162	6	112	175	290
Mississippi	11,902	13,724	-1,213	-15,259	-3,445	R-2,922	-12,144
Missouri	25	24	25	-345	321	98	-133
Montana	-4,466	-4,171	-4,023	-4,084	-591	4,348	6,469
Nebraska	-839	-633	-887	-2,061	-472	1	1,856
New Mexico	1,475	3,751	93	-818	-258	1,785	3,846
New York	-9,405	-6,908	-8,007	-12,164	-952	14,822	15,424
Ohio	-25,825	-25,872	-25,869	-26,345	4,379	27,353	24,424
Oklahoma	-13,480	-5,348	-13,098	-17,878	-6,196	5,470	31,221
Oregon	431	-1,178	-2,824	-2,644	29	-261	2,704
Pennsylvania	-28,602	-39,628	-46,334	-50,138	858	60,784	53,807
Tennessee	-58	-82	-75	-96	-44	-30	25
Texas	28,939	26,147	-22,403	-37,196	-28,408	-15,104	36,004
Utah	-3,631	-4,035	-6,954	-8,576	-1,893	3,257	9,335
Virginia	214	74	-77	-607	-627	1,485	-193
Washington	-2,448	1,854	-5,671	-4,561	-2,546	2,206	6,762
West Virginia	-28,124	-29,175	-33,562	-28,088	-6,014	28,590	33,907
Wyoming	-1,874	-612	R-2,225	R-4,377	-936	136	3,444
Regions							
East Region	-94,340	-104,413	-117,095	-119,003	-1,702	135,016	130,329
South Central Region	11,415	31,626	-66,671	-129,540	-34,545	R3,039	92,655
Midwest Region	-133,497	-112,753	-116,013	-110,705	29,630	119,395	172,464
Mountain Region	-15,332	-8,038	R-20,150	R-26,473	-4,022	13,898	34,295
Pacific Region	-1,727	9,052	-26,969	-36,288	-21,156	12,640	34,834
Total Lower 48 States	-233,482	-184,526	R-346,898	R-422,008	-31,796	R283,988	464,577
U.S. Total	-235,277	-186,388	R-348,648	R-422,865	-31,771	R285,008	466,564

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2016-2018

(million cubic feet) – continued

State	2018						2017
	January	Total	December	November	October	September	August
Alabama	7,522	3,570	2,448	-1,237	-3,630	-561	3,628
Alaska ^a	2,559	-3,585	1,309	1,622	-476	-1,624	-2,476
Arkansas	951	-629	1,220	397	-251	-582	-574
California	41,978	5,688	37,901	6,223	-4,453	-12,170	1,123
Colorado	9,686	-309	13,278	-4,315	-582	-6,013	-2,922
Illinois	64,676	8,410	57,696	-333	-40,165	-41,306	-34,888
Indiana	5,357	-69	4,827	-1,525	-2,472	-2,352	-2,191
Iowa	19,932	329	20,539	6,240	-20,082	-19,446	-11,805
Kansas	23,304	6,142	22,474	-872	-5,986	-5,422	656
Kentucky	23,235	15,130	15,659	3,170	-10,110	-8,402	-1,317
Louisiana	95,750	26,198	57,784	-10,494	-13,491	-23,167	3,696
Maryland	4,492	-1,045	2,079	816	-533	-1,395	-2,626
Michigan	161,641	47,361	121,334	39,265	-34,646	-52,348	-54,494
Minnesota	238	248	298	-9	-232	-242	-244
Mississippi	37,691	21,817	29,161	-4,909	-11,495	-17,129	4,913
Missouri	-15	248	864	-210	-217	-432	*
Montana	7,142	2,360	7,373	3,931	-812	-4,091	-2,393
Nebraska	3,298	1,266	2,753	-232	-702	-1,206	-564
New Mexico	4,077	11,752	4,715	1,939	235	241	2,883
New York	22,793	-3,120	15,467	5,738	-10,854	-13,746	-15,700
Ohio	42,463	9,594	33,605	16,388	-3,490	-22,590	-24,349
Oklahoma	37,977	23,004	27,244	3,272	-9,766	-4,340	1,626
Oregon	3,193	214	5,113	190	-705	-899	-702
Pennsylvania	90,102	9,738	61,182	20,680	-31,295	-33,239	-47,206
Tennessee	104	-45	68	5	-31	-42	11
Texas	106,822	65,344	84,716	-11,751	-30,361	-16,898	19,068
Utah	14,371	2,594	12,258	-177	-1,600	-4,342	-1,449
Virginia	-243	912	1,051	-144	-40	-761	-317
Washington	2,896	1,133	4,053	-191	1,203	-3,610	-2,225
West Virginia	58,248	-5,627	43,252	13,698	-11,598	-17,030	-24,959
Wyoming	3,503	5,222	3,028	-1,194	1,188	-1,390	172
Regions							
East Region	217,855	10,452	156,637	57,175	-57,810	-88,761	-115,156
South Central Region	310,017	145,446	225,046	-25,593	-74,980	-68,100	33,012
Midwest Region	275,168	71,612	221,285	46,603	-107,955	-124,569	-104,928
Mountain Region	42,077	22,884	43,405	-48	-2,273	-16,801	-4,273
Pacific Region	48,067	7,035	47,067	6,222	-3,956	-16,679	-1,804
Total Lower 48 States	893,183	257,429	693,440	84,358	-246,975	-314,911	-193,148
U.S. Total	895,742	253,844	694,748	85,980	-247,451	-316,535	-195,625

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2016-2018

(million cubic feet) – continued

State	2017						
	July	June	May	April	March	February	January
Alabama	3,386	498	169	-1,292	1,420	-1,005	-254
Alaska ^a	-2,424	-2,108	-1,525	-1,076	1,572	1,409	2,213
Arkansas	-647	-581	-595	-272	772	66	418
California	-6,826	-13,935	-23,446	-16,167	-17,258	4,300	50,395
Colorado	-5,245	-5,660	-4,519	-1,374	1,199	4,859	10,983
Illinois	-25,184	-32,389	-17,012	4,438	35,264	42,917	59,371
Indiana	-2,486	-2,782	-1,664	-501	2,040	3,067	5,972
Iowa	-1,696	-1,917	-1,579	1,288	5,165	8,052	15,571
Kansas	-2,088	-4,611	-14,016	-10,252	5,246	2,192	18,823
Kentucky	5,583	1,693	-8,818	-12,511	5,772	7,787	16,622
Louisiana	1,075	-5,251	-19,393	-22,014	22,982	11,892	22,579
Maryland	-2,873	-2,241	-3,128	-280	3,170	2,048	3,915
Michigan	-38,760	-57,334	-55,198	-39,909	63,573	47,176	108,702
Minnesota	-220	-190	-63	36	342	450	321
Mississippi	14,979	-476	-3,259	-8,395	6,585	1,802	10,041
Missouri	0	*	0	*	100	-20	163
Montana	-3,558	-4,182	-4,160	-2,002	1,137	4,042	7,075
Nebraska	-935	182	-1,017	-979	-287	1,408	2,844
New Mexico	1,623	68	-1,257	-1,704	-2,779	1,321	4,466
New York	-8,367	-12,765	-7,272	-5,894	17,047	12,369	20,857
Ohio	-26,059	-26,200	-18,721	-5,818	27,859	22,619	36,350
Oklahoma	1,039	-10,437	-13,581	-4,742	-5,893	3,193	35,389
Oregon	-545	-1,472	-3,170	-336	-2,364	606	4,500
Pennsylvania	-37,135	-46,732	-51,111	-33,170	70,898	54,306	82,560
Tennessee	8	-41	-32	-29	-5	14	31
Texas	18,244	-15,267	-37,200	-30,805	1,147	6,329	78,122
Utah	-3,718	-5,162	-7,294	-2,628	-518	5,334	11,889
Virginia	349	45	-513	-310	689	685	180
Washington	329	-2,739	-5,577	-2,596	1,556	4,022	6,908
West Virginia	-26,009	-26,523	-33,844	-30,240	27,775	29,958	49,893
Wyoming	-1,694	-2,290	-1,936	-632	234	1,737	8,000
Regions							
East Region	-100,093	-114,416	-114,589	-75,713	147,438	121,986	193,754
South Central Region	35,989	-36,126	-87,874	-77,772	32,259	24,469	165,118
Midwest Region	-62,755	-92,960	-84,366	-47,188	112,250	109,443	206,754
Mountain Region	-13,527	-17,044	-20,183	-9,318	-1,014	18,701	45,258
Pacific Region	-7,041	-18,145	-32,194	-19,099	-18,066	8,927	61,803
Total Lower 48 States	-147,426	-278,691	-339,205	-229,091	272,867	283,526	672,686
U.S. Total	-149,850	-280,799	-340,730	-230,167	274,439	284,935	674,900

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2016-2018

(million cubic feet) – continued

State	2016						
	Total	December	November	October	September	August	July
Alabama	1,019	3,462	-2,161	-5,368	-597	2,250	3,115
Alaska ^a	-8,322	1,789	872	139	-1,321	-1,997	-1,976
Arkansas	-1,666	739	-86	-152	-318	-564	-517
California	39,603	43,736	1,937	-8,590	-3,383	4,248	769
Colorado	-4,606	11,693	-1,452	-7,324	-5,111	-3,745	-4,892
Illinois	5,282	53,639	623	-37,807	-41,363	-33,535	-28,440
Indiana	3,478	4,712	-1,533	-2,257	-2,199	-1,850	-1,850
Iowa	6,414	22,217	5,150	-18,715	-18,041	-14,078	-1,925
Kansas	8,377	21,467	876	-5,573	-8,157	-2,098	-7,378
Kentucky	9,205	16,756	51	-4,545	-4,548	-128	-2,707
Louisiana	39,572	42,587	-3,970	-51,370	-11,031	18,506	16,049
Maryland	2,916	2,604	893	133	-150	-1,397	-1,133
Michigan	57,601	108,495	17,034	-27,683	-54,745	-36,754	-35,799
Minnesota	38	44	14	-104	-197	-228	-205
Mississippi	26,635	24,501	1,560	-24,918	-3,355	2,651	7,130
Missouri	-156	365	-210	-405	-290	*	0
Montana	-7,364	8,305	2,401	-782	-2,191	-3,465	-3,260
Nebraska	785	2,171	721	-1,221	-1,132	-90	-151
New Mexico	669	4,345	-1,195	-1,530	75	167	659
New York	19,233	20,132	4,697	-7,006	-12,209	-3,017	-3,467
Ohio	17,390	41,276	14,460	-10,323	-22,602	-23,658	-25,774
Oklahoma	11,957	30,817	-5,705	-11,783	-2,082	1,055	-3,398
Oregon	1,381	5,032	406	-1,086	-266	-16	-887
Pennsylvania	68,344	70,114	10,492	-16,859	-43,300	-18,752	-21,094
Tennessee	-66	71	-14	-34	2	2	3
Texas	38,656	65,863	-17,919	-50,646	112	21,348	18,530
Utah	-1,208	12,286	-466	-1,542	-3,455	-2,871	-2,671
Virginia	189	212	-211	-163	-185	-504	73
Washington	-2,216	3,465	448	-109	-3,266	-2,091	-788
West Virginia	22,407	44,092	10,686	-7,057	-15,425	-22,388	-29,308
Wyoming	-7,349	8,555	-3,105	-3,717	-1,656	-769	-1,773
Regions							
East Region	130,479	178,429	41,017	-41,275	-93,871	-69,715	-80,704
South Central Region	124,549	189,436	-27,405	-149,809	-25,428	43,149	33,529
Midwest Region	81,797	206,299	21,114	-91,550	-121,381	-86,571	-70,923
Mountain Region	-19,074	47,355	-3,096	-16,117	-13,469	-10,773	-12,088
Pacific Region	38,769	52,233	2,790	-9,785	-6,916	2,142	-906
Total Lower 48 States	356,520	673,752	34,420	-308,536	-261,066	-121,769	-131,091
U.S. Total	348,198	675,541	35,292	-308,397	-262,387	-123,765	-133,067

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2016-2018

(million cubic feet) – continued

State	2016					
	June	May	April	March	February	January
Alabama	1,486	-1,536	-3,383	-323	-713	4,787
Alaska ^a	-1,468	-1,957	-1,441	-451	-459	-50
Arkansas	-724	-801	-444	438	328	434
California	-7,766	-16,700	-17,261	-4,805	7,203	40,217
Colorado	-5,512	-5,498	1,334	3,688	2,412	9,800
Illinois	-32,072	-26,284	4,551	26,092	50,274	69,604
Indiana	-2,226	-2,905	527	1,694	5,259	6,106
Iowa	-2,856	-2,349	2,150	4,762	10,674	19,427
Kansas	-4,701	-13,272	-7,171	-4,070	11,913	26,541
Kentucky	-2,776	-8,262	-16,117	2,150	9,656	19,675
Louisiana	-2,585	-11,540	-20,296	-14,011	21,175	56,058
Maryland	-3,022	-1,671	716	-342	2,294	3,991
Michigan	-52,688	-65,480	-13,874	30,025	80,654	108,415
Minnesota	-174	-76	7	515	127	315
Mississippi	1,758	-7,184	-6,394	-12,187	6,944	36,129
Missouri	0	0	0	119	-168	433
Montana	-4,908	-5,202	-3,943	-770	2,057	4,394
Nebraska	-16	-1,099	-630	-103	549	1,788
New Mexico	-391	-1,615	-1,170	-1,658	1,413	1,568
New York	-6,284	-11,257	-1,560	2,483	14,571	22,150
Ohio	-26,258	-21,537	-5,040	17,603	32,160	47,082
Oklahoma	-3,069	-15,348	-9,402	-5,923	10,070	26,725
Oregon	-511	-2,228	-1,027	-362	481	1,845
Pennsylvania	-36,463	-32,012	-5,601	11,919	62,426	87,473
Tennessee	-38	-27	-17	-32	-6	25
Texas	7,624	-29,546	-38,115	-19,445	24,128	56,721
Utah	-4,887	-7,374	-814	-1,928	3,685	8,830
Virginia	-46	-242	-508	135	17	1,612
Washington	-1,834	-4,392	-2,918	1,935	5,854	1,480
West Virginia	-25,938	-27,301	-14,249	11,571	35,666	62,059
Wyoming	-3,980	-3,858	-2,386	-139	2,448	3,031
Regions						
East Region	-98,011	-94,019	-26,242	43,370	147,134	224,367
South Central Region	-212	-79,227	-85,205	-55,521	73,846	207,396
Midwest Region	-92,831	-105,382	-22,774	65,327	156,470	224,000
Mountain Region	-19,694	-24,646	-7,610	-910	12,562	29,411
Pacific Region	-10,112	-23,319	-21,206	-3,232	13,538	43,542
Total Lower 48 States	-220,859	-326,593	-163,038	49,034	403,550	728,716
U.S. Total	-222,328	-328,551	-164,479	48,583	403,091	728,666

^a Alaska data are not included in the regions' totals or the lower 48 states total.^R Revised data.^{*} Volume is less than 500 Mcf.

Notes: This table contains total net withdrawals for each of the states with natural gas storage facilities. Positive numbers indicate the volume of withdrawals in excess of injections. Negative values indicate the volume of injections in excess of withdrawals. EIA publishes weekly estimates of working gas in underground storage by geographical region; in November 2015, region breakouts were revised from three regions to five. See Explanatory Note 5 in Appendix A for a list of the new regions shown in this table and the states included in each.

Source: U.S. Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 13. Activities of underground natural gas storage operators, by state, August 2018

(volumes in million cubic feet)

State	Field Count	Total Storage Capacity	Working Gas Storage Capacity	Natural Gas in Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity	
				Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals
Alabama	2	43,600	33,150	10,450	12,383	22,833	-3,988	-24.4	894	3,964
Alaska ^a	5	83,592	67,915	14,197	36,859	51,056	-158	-0.4	1,860	65
Arkansas	2	21,774	8,894	12,880	4,099	16,979	545	15.3	931	0
California	14	603,808	373,236	230,605	212,732	443,337	-48,107	-18.4	15,354	15,643
Colorado	10	139,627	71,774	60,377	41,681	102,058	-2,185	-5.0	8,829	2,832
Illinois	28	1,008,849	303,613	705,953	161,080	867,033	-9,256	-5.4	35,224	479
Indiana	21	113,659	34,119	79,554	19,947	99,501	-949	-4.5	4,158	3
Iowa	4	288,210	90,313	197,897	36,014	233,911	-2,563	-6.6	16,016	479
Kansas	16	282,986	122,982	163,853	80,076	243,930	-11,100	-12.2	14,862	1,187
Kentucky	22	221,695	107,596	112,829	60,443	173,272	-12,861	-17.5	6,644	2,184
Louisiana	19	740,013	449,422	281,949	240,740	522,689	-79,355	-24.8	34,577	30,167
Maryland	1	64,000	18,300	45,677	13,845	59,523	-648	-4.5	2,620	22
Michigan	44	1,071,608	683,820	386,921	421,946	808,867	-134,153	-24.1	74,724	426
Minnesota	1	7,000	2,000	4,848	1,669	6,517	15	0.9	269	0
Mississippi	12	334,092	204,013	124,975	83,479	208,455	-23,761	-22.2	12,246	24,148
Missouri	1	13,845	3,656	10,189	2,172	12,361	-3,905	-64.3	2	27
Montana	4	376,225	197,477	178,501	24,204	202,704	-6,948	-22.3	4,539	72
Nebraska	1	34,850	12,653	22,197	7,958	30,155	-918	-10.3	898	59
New Mexico	2	89,100	59,738	29,362	19,200	48,562	-21,082	-52.3	397	1,872
New York	26	245,779	127,487	114,176	76,200	190,376	-12,281	-13.9	10,994	1,590
Ohio	24	575,794	253,750	321,358	144,341	465,699	-18,310	-11.3	26,268	444
Oklahoma	13	376,528	198,675	177,696	113,918	291,614	-32,837	-22.4	18,415	4,935
Oregon	7	29,565	15,935	12,639	13,417	26,056	-3,277	-19.6	496	927
Pennsylvania	49	763,296	427,601	335,395	255,363	590,758	-57,860	-18.5	38,087	9,485
Tennessee	2	2,400	1,800	878	1,518	2,395	257	20.4	58	*
Texas	35	845,081	545,640	293,771	268,063	561,834	-115,132	-30.0	37,708	66,647
Utah	3	124,509	54,942	69,508	35,739	105,247	-8,042	-18.4	3,674	43
Virginia	2	9,500	5,400	4,100	3,852	7,952	-356	-8.5	1,128	1,342
Washington	1	46,900	24,600	22,300	19,917	42,217	254	1.3	3,325	877
West Virginia	31	530,837	268,640	262,858	169,987	432,846	-24,366	-12.5	29,863	1,739
Wyoming	9	155,995	74,492	67,694	34,360	102,055	634	1.9	1,991	117
Regions										
East Region	133	2,189,206	1,101,178	1,083,566	663,587	1,747,153	-113,821	-14.6	108,961	14,621
South Central Region	99	2,644,075	1,562,776	1,065,575	802,759	1,868,334	-265,628	-24.9	119,633	131,048
Midwest Region	123	2,727,265	1,226,916	1,499,068	704,789	2,203,858	-163,416	-18.8	137,095	3,597
Mountain Region	29	920,306	471,075	427,639	163,141	590,780	-38,540	-19.1	20,328	4,996
Pacific Region	22	680,273	413,771	265,544	246,067	511,611	-51,129	-17.2	19,174	17,447
Total Lower 48 States	406	9,161,125	4,775,716	4,341,392	2,580,344	6,921,736	-632,535	-19.7	405,191	171,709
U.S. Total	411	9,244,717	4,843,632	4,355,589	2,617,203	6,972,792	-632,693	-19.5	407,052	171,775

^a Alaska data are not included in the regions' totals or the lower 48 states total.

* Volume is less than 500 Mcf.

Notes: Existing fields include both active and inactive fields. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Total gas capacity may not equal the sum of base gas and working gas capacity, owing to changes in operational conditions. Totals may not equal sum of components because of independent rounding. EIA publishes weekly estimates of working gas in underground storage by geographical region; in November 2015, region breakouts were revised from three regions to five. See Explanatory Note 5 in Appendix A for a list of the new regions shown in this table and the states included in each. Beginning with January 2013 data, Form EIA-191A is no longer used as a source for capacity data. Capacity data are now collected from the Form EIA-191. Change in Working Gas from Same Period, Previous Year, includes data for Alaska which had no working gas recorded for periods prior to January 2013. As of January 2015, the Kimball and Columbus III reservoirs in Michigan are being reported under the Bluewater Gas Storage Field on a combined basis. In prior periods, they were reported separately.

Source: U.S. Energy Information Administration (EIA): Form EIA-191, "Monthly Underground Gas Storage Report."

Table 14. Natural gas deliveries to residential consumers, by state, 2016-2018

(million cubic feet)

State	2018	2017	2016	2018				
	8-Month YTD	8-Month YTD	8-Month YTD	August	July	June	May	April
Alabama	22,953	15,635	20,242	708	682	732	1,127	2,525
Alaska	11,813	12,639	9,962	590	500	672	1,031	1,481
Arizona	23,312	23,769	25,250	1,047	1,120	1,326	1,729	2,402
Arkansas	21,949	15,932	18,010	554	501	626	931	2,509
California	NA	293,082	265,719	NA	19,967	22,008	27,006	32,336
Colorado	80,513	72,766	79,018	2,772	2,593	2,720	5,733	10,162
Connecticut	35,495	32,832	30,866	951	1,066	1,325	1,965	5,285
Delaware	NA	6,515	6,709	166	166	185	345	1,091
District of Columbia	8,174	7,878	7,767	271	266	253	358	943
Florida	12,111	10,145	11,136	752	811	984	1,146	1,564
Georgia	84,088	66,012	77,764	4,087	3,917	3,984	4,710	8,852
Hawaii	405	389	379	47	46	50	49	52
Idaho	15,831	17,474	14,185	567	548	656	801	1,876
Illinois	283,256	237,796	254,170	7,334	7,470	8,923	12,347	43,614
Indiana	92,983	74,900	81,051	2,103	2,203	2,006	3,676	13,606
Iowa	45,421	38,346	40,599	1,056	934	1,157	1,788	6,942
Kansas	43,300	33,594	34,621	1,150	1,052	1,344	1,673	5,924
Kentucky	33,149	25,009	30,274	748	696	755	1,214	4,207
Louisiana	25,269	17,393	21,961	1,121	1,112	1,245	1,579	2,436
Maine	1,931	1,821	1,699	54	49	74	114	271
Maryland	NA	47,771	51,280	1,474	1,568	1,870	NA	7,407
Massachusetts	NA	79,317	74,393	2,381	2,572	2,891	4,363	12,005
Michigan	214,437	182,540	191,302	5,726	5,269	5,752	9,052	34,058
Minnesota	NA	77,724	77,939	2,485	2,218	2,930	NA	13,499
Mississippi	15,831	10,812	13,860	560	513	498	680	1,573
Missouri	72,527	53,154	57,103	1,662	1,666	1,787	2,294	10,125
Montana	NA	13,096	10,999	382	357	550	854	1,861
Nebraska	27,758	22,107	22,015	580	754	780	1,576	3,889
Nevada	26,931	28,110	26,210	1,134	1,234	1,583	1,967	2,839
New Hampshire	5,060	4,705	4,527	149	136	172	227	731
New Jersey	162,086	143,752	146,846	4,311	4,764	5,911	7,617	22,887
New Mexico	NA	19,294	21,470	NA	814	809	NA	2,540
New York	319,723	287,674	280,651	9,705	10,830	12,261	18,783	47,627
North Carolina	47,286	34,228	42,515	959	937	1,152	1,185	4,846
North Dakota	NA	6,784	6,205	186	170	255	650	1,340
Ohio	188,489	156,733	171,259	4,620	4,674	4,586	5,877	29,426
Oklahoma	42,641	31,377	32,007	1,101	1,046	1,145	1,511	5,430
Oregon	26,205	29,962	22,718	900	948	1,303	1,523	3,495
Pennsylvania	167,286	141,094	143,784	4,135	4,179	4,554	6,551	23,138
Rhode Island	12,855	11,871	11,117	379	372	413	459	1,888
South Carolina	20,129	14,361	18,326	497	476	503	727	1,928
South Dakota	NA	7,759	7,488	192	205	247	617	1,415
Tennessee	49,519	32,595	39,701	943	1,086	1,130	2,499	6,231
Texas	NA	111,612	125,294	4,833	4,693	5,206	7,939	12,998
Utah	40,709	40,356	39,665	1,574	1,616	2,057	2,342	4,522
Vermont	2,684	2,423	2,402	72	80	109	179	423
Virginia	NA	48,187	53,003	1,519	1,674	1,562	2,274	6,645
Washington	51,268	56,580	44,347	1,567	2,002	2,424	2,812	7,275
West Virginia	NA	13,802	15,618	299	332	388	NA	2,457
Wisconsin	92,603	81,454	82,723	2,309	2,297	2,626	3,977	14,904
Wyoming	8,116	8,254	7,361	235	242	308	589	1,213
Total	3,246,758	2,803,413	2,875,511	98,905	105,424	118,789	167,864	438,693

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2016-2018

(million cubic feet) – continued

State	2018				2017			
	March	February	January	Total	December	November	October	September
Alabama	3,762	3,781	9,635	26,430	6,211	2,650	1,193	741
Alaska	2,217	2,618	2,705	20,247	2,525	2,613	1,579	892
Arizona	4,675	5,213	5,801	32,821	4,272	2,133	1,502	1,145
Arkansas	4,139	4,958	7,731	25,704	5,713	2,542	931	586
California	53,606	55,061	58,044	431,005	62,531	33,949	23,669	17,774
Colorado	14,279	20,245	22,009	118,582	21,054	12,514	8,690	3,557
Connecticut	7,422	6,900	10,580	48,431	8,288	4,790	1,430	1,091
Delaware	1,944	1,533	NA	9,896	2,007	953	249	172
District of Columbia	1,830	1,720	2,532	11,904	2,383	934	410	299
Florida	1,732	2,038	3,084	14,934	1,816	1,226	924	823
Georgia	15,677	12,223	30,637	111,248	22,315	12,094	6,722	4,105
Hawaii	52	51	58	572	50	47	43	44
Idaho	3,174	4,018	4,191	28,799	5,273	3,069	2,147	836
Illinois	54,873	64,644	84,051	377,511	69,482	44,367	17,811	8,054
Indiana	19,900	19,981	29,508	123,847	26,461	14,435	5,553	2,498
Iowa	8,491	11,176	13,877	60,362	11,284	6,654	2,952	1,127
Kansas	7,190	11,246	13,720	54,445	10,772	6,674	2,239	1,166
Kentucky	6,877	6,626	12,026	43,253	9,945	5,305	2,019	975
Louisiana	3,112	4,179	10,485	29,060	6,251	2,659	1,536	1,221
Maine	386	403	581	2,748	520	264	85	58
Maryland	13,780	11,424	17,860	75,789	15,141	8,718	2,426	1,732
Massachusetts	NA	20,798	25,253	121,181	22,904	12,151	4,115	2,694
Michigan	46,850	45,396	62,334	299,158	58,028	37,037	14,512	7,041
Minnesota	17,200	23,096	26,700	123,898	22,061	15,032	6,526	2,556
Mississippi	2,284	2,613	7,110	18,446	4,142	1,988	882	622
Missouri	13,547	16,785	24,661	86,865	19,244	10,363	2,311	1,794
Montana	NA	3,510	3,568	21,481	3,627	2,535	1,587	637
Nebraska	4,986	7,053	8,138	34,069	5,967	3,973	1,404	619
Nevada	5,622	6,015	6,537	40,911	6,316	2,973	2,035	1,476
New Hampshire	1,089	998	1,557	7,331	1,428	787	257	155
New Jersey	36,896	30,408	49,292	221,608	43,095	21,617	8,807	4,338
New Mexico	4,537	4,758	6,414	29,993	5,444	2,871	1,517	866
New York	67,187	63,551	89,778	432,451	75,715	42,655	15,453	10,954
North Carolina	11,140	7,984	19,084	59,933	14,460	8,039	2,110	1,096
North Dakota	NA	2,132	2,285	11,015	1,938	1,388	669	235
Ohio	42,110	38,429	58,768	258,699	53,080	30,997	12,214	5,675
Oklahoma	6,380	11,560	14,467	51,069	11,996	4,925	1,511	1,260
Oregon	5,426	6,356	6,253	47,841	8,213	5,325	3,149	1,191
Pennsylvania	38,942	33,318	52,469	218,719	42,298	22,852	7,875	4,601
Rhode Island	2,925	2,433	3,986	18,421	3,485	2,051	628	386
South Carolina	3,931	3,278	8,789	24,558	5,845	2,976	835	541
South Dakota	NA	2,254	2,552	12,146	2,176	1,283	684	244
Tennessee	8,263	9,910	19,458	56,661	14,083	6,831	1,899	1,253
Texas	23,771	33,600	NA	164,140	25,645	13,224	7,772	5,888
Utah	9,459	8,505	10,634	66,700	13,023	6,973	4,527	1,821
Vermont	516	561	744	3,509	587	301	111	87
Virginia	13,630	11,173	NA	76,904	16,077	8,094	2,857	1,690
Washington	11,037	11,997	12,154	91,028	14,960	10,582	6,464	2,441
West Virginia	4,273	3,671	5,563	22,385	4,473	2,611	1,014	485
Wisconsin	18,237	22,356	25,896	131,018	25,210	15,334	6,281	2,739
Wyoming	1,647	1,968	1,913	12,553	1,801	1,281	951	266
Total	655,675	686,506	974,901	4,412,282	821,617	467,638	205,068	114,548

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017							January
	August	July	June	May	April	March	February	
Alabama	656	679	716	928	1,366	3,187	3,240	4,864
Alaska	601	551	656	983	1,472	2,666	2,521	3,189
Arizona	1,011	1,101	1,324	1,781	2,358	3,702	5,836	6,656
Arkansas	553	570	621	952	1,168	2,951	3,376	5,740
California	18,026	19,092	20,885	27,252	29,707	40,608	53,982	83,530
Colorado	2,841	2,657	2,955	6,264	8,839	11,822	14,666	22,721
Connecticut	1,025	1,075	1,380	2,231	3,529	7,844	7,199	8,549
Delaware	158	151	207	350	612	1,689	1,397	1,951
District of Columbia	287	293	340	518	616	1,796	1,679	2,348
Florida	751	778	880	1,060	1,392	1,600	1,725	1,958
Georgia	4,049	3,940	4,108	4,938	5,707	12,818	12,389	18,065
Hawaii	42	43	49	44	49	52	52	58
Idaho	530	518	599	1,114	2,016	2,669	3,829	6,199
Illinois	8,084	8,664	9,174	16,968	23,288	52,091	47,489	72,039
Indiana	2,016	2,096	2,415	5,288	7,075	17,157	15,348	23,505
Iowa	1,105	1,028	1,276	2,437	4,047	8,061	8,381	12,010
Kansas	1,063	1,009	1,228	1,776	3,063	6,451	6,663	12,341
Kentucky	784	719	777	1,188	2,032	5,648	5,597	8,265
Louisiana	1,207	1,231	1,287	1,429	1,705	2,699	2,906	4,928
Maine	54	52	76	135	235	426	395	447
Maryland	1,326	1,651	1,789	2,993	3,402	11,443	11,029	14,139
Massachusetts	2,497	2,608	3,299	5,950	8,696	20,221	16,531	19,515
Michigan	5,408	5,123	6,056	13,698	18,830	42,976	38,428	52,022
Minnesota	2,510	2,276	2,997	5,044	8,308	16,657	16,507	23,423
Mississippi	553	518	526	728	807	2,153	2,110	3,417
Missouri	1,678	1,597	1,904	3,319	4,432	10,298	10,986	18,940
Montana	349	343	474	902	1,608	2,231	2,978	4,211
Nebraska	434	673	857	1,512	2,231	4,156	4,681	7,563
Nevada	1,153	1,310	1,600	2,022	2,794	4,396	6,256	8,578
New Hampshire	158	137	176	338	478	1,184	999	1,235
New Jersey	4,288	4,857	6,185	9,355	14,797	34,080	30,427	39,764
New Mexico	818	839	951	1,409	2,085	2,973	4,196	6,024
New York	10,216	10,730	13,856	20,615	30,903	68,055	60,346	72,953
North Carolina	993	1,135	1,039	1,514	2,309	8,165	7,129	11,944
North Dakota	177	155	190	347	737	1,475	1,577	2,126
Ohio	5,045	4,714	5,339	9,994	13,998	37,454	33,242	46,946
Oklahoma	1,298	1,172	1,300	1,878	2,737	4,756	6,446	11,789
Oregon	778	866	1,330	2,147	3,766	5,136	6,406	9,534
Pennsylvania	3,878	4,196	5,099	9,495	13,739	33,755	30,971	39,961
Rhode Island	407	414	462	798	1,192	3,126	2,513	2,961
South Carolina	482	559	526	657	1,177	3,265	2,916	4,779
South Dakota	221	195	265	482	905	1,538	1,668	2,485
Tennessee	983	1,008	1,168	1,721	2,363	6,888	7,217	11,248
Texas	5,438	6,003	5,823	7,749	9,413	16,020	22,128	39,036
Utah	1,471	1,680	2,227	2,890	4,976	5,704	7,427	13,980
Vermont	78	82	131	187	311	570	507	556
Virginia	1,587	1,657	1,797	2,501	3,795	11,067	10,403	15,380
Washington	1,749	1,802	2,226	4,046	7,034	10,426	12,453	16,844
West Virginia	304	356	325	758	1,371	3,489	3,117	4,081
Wisconsin	2,503	2,306	2,795	5,967	8,439	18,653	17,252	23,539
Wyoming	212	211	372	796	1,001	1,520	1,797	2,344
Total	103,832	107,423	124,038	199,451	278,910	579,768	579,313	830,679

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2016-2018

(million cubic feet) – continued

State	2016							
	Total	December	November	October	September	August	July	June
Alabama	28,407	4,880	1,790	875	620	646	675	833
Alaska	17,787	2,969	2,313	1,713	831	534	479	534
Arizona	35,120	4,980	2,313	1,433	1,144	1,031	1,081	1,327
Arkansas	27,130	5,947	1,830	734	609	545	584	687
California	411,828	66,473	37,485	22,234	19,918	18,613	19,533	21,252
Colorado	121,963	22,110	11,559	6,060	3,217	2,736	2,560	2,932
Connecticut	46,045	7,814	4,432	1,971	962	897	1,034	1,312
Delaware	9,660	1,711	794	281	165	155	164	224
District of Columbia	11,379	2,132	941	337	202	211	240	280
Florida	15,352	1,587	1,082	820	727	683	701	798
Georgia	115,922	19,426	10,125	4,812	3,795	3,830	3,641	3,772
Hawaii	571	52	47	45	49	45	45	45
Idaho	24,889	5,896	2,661	1,457	690	498	524	587
Illinois	386,590	77,071	32,863	14,683	7,804	7,463	7,828	9,531
Indiana	125,038	26,006	11,343	4,292	2,346	2,201	2,033	2,229
Iowa	61,247	12,695	4,607	2,016	1,330	1,052	1,178	1,181
Kansas	54,060	12,004	4,753	1,543	1,139	990	1,080	1,377
Kentucky	45,502	9,305	3,863	1,288	772	774	723	813
Louisiana	31,383	4,824	1,988	1,388	1,222	1,247	1,182	1,239
Maine	2,566	449	229	133	56	44	50	60
Maryland	76,047	13,905	6,792	2,645	1,425	1,345	1,483	1,783
Massachusetts	112,082	19,200	10,623	5,427	2,440	2,281	2,440	2,802
Michigan	294,152	53,783	27,488	14,925	6,654	4,898	5,405	5,586
Minnesota	117,598	21,656	9,848	5,555	2,599	2,497	2,306	2,944
Mississippi	20,185	3,778	1,350	625	572	553	595	740
Missouri	87,264	19,405	6,723	2,507	1,526	1,611	1,637	1,919
Montana	19,100	3,972	2,115	1,383	631	405	400	515
Nebraska	33,050	6,924	2,374	1,031	706	665	713	905
Nevada	39,075	6,777	2,891	1,810	1,387	1,208	1,269	1,518
New Hampshire	6,861	1,249	701	231	153	129	130	168
New Jersey	215,510	36,467	18,709	8,782	4,706	4,313	5,739	6,416
New Mexico	32,577	5,893	3,068	1,214	933	775	839	1,085
New York	412,467	66,144	37,991	18,301	9,380	9,267	10,775	12,799
North Carolina	64,547	12,920	6,306	1,719	1,088	1,045	1,047	1,222
North Dakota	10,059	2,140	867	629	218	175	162	181
Ohio	255,826	45,991	23,458	10,397	4,721	4,818	4,237	4,867
Oklahoma	50,573	11,803	3,798	1,660	1,305	1,175	1,115	1,370
Oregon	39,391	8,788	3,994	2,776	1,114	622	920	1,127
Pennsylvania	215,512	38,711	20,030	8,820	4,167	3,943	4,156	5,191
Rhode Island	17,200	3,064	1,753	906	360	236	268	325
South Carolina	27,562	5,384	2,620	730	502	484	447	499
South Dakota	11,663	2,513	901	520	239	209	196	230
Tennessee	58,924	12,402	4,391	1,410	1,020	926	1,004	1,157
Texas	175,332	29,065	9,112	6,508	5,353	5,380	5,756	7,078
Utah	63,929	13,140	6,363	2,979	1,781	1,366	1,714	1,463
Vermont	3,518	555	326	149	87	77	93	113
Virginia	77,170	13,307	6,527	2,883	1,450	1,376	1,429	2,052
Washington	76,321	16,027	7,845	5,551	2,551	1,776	1,855	2,300
West Virginia	23,210	4,083	2,265	884	360	323	363	371
Wisconsin	125,449	24,366	10,367	5,590	2,403	2,124	2,361	2,605
Wyoming	11,999	2,424	1,135	727	353	259	231	294
Total	4,346,588	794,164	379,746	187,385	109,782	100,455	106,420	122,640

See footnotes at end of table.

Table 14. Natural gas deliveries to residential consumers, by state, 2016-2018
(million cubic feet) – continued

State	2016				
	May	April	March	February	January
Alabama	978	1,645	2,755	5,516	7,195
Alaska	864	1,242	1,885	2,067	2,358
Arizona	1,766	2,422	3,089	5,816	8,719
Arkansas	937	1,510	2,762	4,944	6,040
California	24,772	28,203	39,795	43,748	69,803
Colorado	6,529	10,419	14,373	17,247	22,222
Connecticut	2,294	4,070	5,351	7,649	8,259
Delaware	458	794	1,094	1,812	2,009
District of Columbia	489	772	1,080	2,230	2,464
Florida	968	1,221	1,694	2,333	2,738
Georgia	4,642	6,476	9,579	19,769	26,056
Hawaii	44	51	49	47	52
Idaho	893	1,308	2,566	3,284	4,525
Illinois	15,848	30,372	41,365	62,741	79,022
Indiana	4,741	9,343	11,654	21,376	27,474
Iowa	2,249	4,664	6,787	10,221	13,266
Kansas	2,084	2,599	5,100	8,619	12,771
Kentucky	1,491	2,633	4,655	8,533	10,651
Louisiana	1,481	1,902	2,610	4,881	7,419
Maine	136	255	330	388	436
Maryland	3,341	5,420	7,549	13,589	16,770
Massachusetts	5,617	10,051	13,735	18,068	19,399
Michigan	12,191	27,259	33,133	47,638	55,192
Minnesota	4,253	9,873	12,540	19,714	23,813
Mississippi	817	943	1,733	3,312	5,167
Missouri	2,869	4,942	8,665	14,459	21,002
Montana	934	1,288	2,008	2,291	3,158
Nebraska	1,371	2,324	3,500	5,465	7,072
Nevada	1,993	2,500	3,524	5,658	8,540
New Hampshire	294	606	806	1,101	1,293
New Jersey	10,809	17,908	23,954	34,983	42,724
New Mexico	1,546	2,178	3,341	4,966	6,740
New York	22,097	36,910	47,537	66,686	74,579
North Carolina	1,657	3,302	5,133	12,917	16,193
North Dakota	375	770	1,076	1,509	1,956
Ohio	10,510	21,448	26,914	44,165	54,299
Oklahoma	1,759	2,370	4,616	7,605	11,999
Oregon	1,550	2,244	4,524	4,904	6,827
Pennsylvania	9,401	16,928	22,482	37,256	44,428
Rhode Island	746	1,498	1,935	2,791	3,320
South Carolina	719	1,342	2,282	5,686	6,866
South Dakota	523	973	1,303	1,766	2,289
Tennessee	1,627	3,107	5,466	11,341	15,073
Texas	7,373	11,584	16,632	30,067	41,423
Utah	2,994	4,452	6,228	9,030	12,419
Vermont	204	362	395	562	598
Virginia	2,968	5,420	8,174	14,427	17,158
Washington	3,170	4,151	8,903	9,272	12,921
West Virginia	726	1,784	2,617	4,160	5,275
Wisconsin	5,056	11,242	14,393	19,942	25,000
Wyoming	772	979	1,333	1,530	1,963
Total	193,922	328,059	455,001	690,077	878,936

^{NA} Not available.

Notes: Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.

Source: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 15. Natural gas deliveries to commercial consumers, by state, 2016-2018

(million cubic feet)

State	2018	2017	2016	2018				
	8-Month YTD	8-Month YTD	8-Month YTD	August	July	June	May	April
Alabama	17,012	13,076	15,436	1,189	1,134	1,126	1,168	1,946
Alaska	9,293	9,839	9,423	556	436	590	816	1,192
Arizona	NA	20,894	22,886	2,073	2,128	NA	NA	NA
Arkansas	35,220	30,133	29,783	2,994	2,754	2,740	3,002	4,298
California	159,245	151,980	151,786	16,418	15,526	16,161	17,545	18,752
Colorado	NA	33,068	35,450	1,662	1,543	NA	NA	NA
Connecticut	37,953	34,581	32,659	2,792	2,594	2,452	2,635	5,299
Delaware	NA	8,187	7,758	776	697	693	700	1,224
District of Columbia	NA	10,170	10,488	857	727	824	642	1,195
Florida	42,646	40,768	42,106	4,487	4,537	4,840	5,031	5,394
Georgia	35,739	29,875	34,424	2,162	2,153	2,142	2,438	3,966
Hawaii	1,748	1,641	1,557	226	223	212	209	216
Idaho	11,392	12,490	10,589	765	705	753	799	1,304
Illinois	159,904	135,234	139,104	8,663	8,614	8,506	10,265	23,102
Indiana	55,209	45,436	47,421	2,313	2,295	2,217	3,089	7,537
Iowa	36,098	30,621	31,844	1,720	1,620	1,846	2,244	5,094
Kansas	25,443	21,893	22,660	1,829	1,626	1,623	1,659	3,484
Kentucky	24,479	19,354	21,735	1,083	1,020	1,012	1,347	3,000
Louisiana	20,147	17,745	19,081	2,029	1,890	1,885	2,006	2,472
Maine	NA	5,786	5,655	NA	NA	328	418	843
Maryland	NA	46,367	46,413	3,654	3,416	3,937	NA	6,514
Massachusetts	NA	70,129	67,576	4,036	3,514	3,998	4,346	10,282
Michigan	123,093	105,066	107,176	5,538	5,325	5,435	8,645	18,479
Minnesota	74,359	63,303	61,429	2,869	2,892	3,219	4,689	11,401
Mississippi	12,631	10,717	12,071	942	859	864	925	1,396
Missouri	45,431	36,592	36,499	2,136	2,083	2,137	2,605	6,133
Montana	16,514	14,514	12,639	907	731	824	1,215	2,301
Nebraska	22,126	18,906	17,527	1,040	1,221	1,229	1,725	2,900
Nevada	21,055	21,296	20,494	1,717	1,723	1,899	2,198	2,569
New Hampshire	6,236	5,727	5,532	238	213	256	291	858
New Jersey	109,150	96,020	102,608	5,952	6,036	6,060	6,819	16,093
New Mexico	NA	14,386	14,938	NA	847	1,057	NA	NA
New York	210,635	201,518	199,440	14,844	14,812	14,359	14,732	28,745
North Carolina	39,124	32,728	36,955	2,190	2,149	2,909	2,537	4,450
North Dakota	NA	8,015	7,280	343	311	394	NA	1,505
Ohio	112,519	95,832	100,236	5,065	4,709	5,007	4,823	16,057
Oklahoma	30,264	23,763	23,917	1,581	1,465	1,582	1,730	3,724
Oregon	NA	20,369	16,072	1,000	976	1,264	1,370	2,389
Pennsylvania	109,172	93,557	92,401	5,213	4,920	5,133	5,367	14,353
Rhode Island	7,923	7,324	7,077	276	281	280	303	1,142
South Carolina	16,336	14,375	15,597	1,290	1,259	1,330	1,472	1,734
South Dakota	NA	6,806	6,568	295	299	345	NA	1,232
Tennessee	NA	28,862	32,468	2,111	2,243	2,309	2,853	4,762
Texas	122,946	109,185	111,186	10,022	8,963	9,446	11,724	13,691
Utah	NA	25,141	24,484	1,222	1,284	1,483	NA	2,899
Vermont	4,401	3,777	3,984	360	349	349	259	617
Virginia	NA	43,053	44,415	3,250	3,407	2,969	3,226	5,362
Washington	36,287	38,625	31,772	2,294	2,162	2,708	2,847	4,556
West Virginia	16,386	14,142	15,106	1,052	989	1,035	1,121	2,204
Wisconsin	64,111	57,431	58,611	2,842	2,852	2,879	3,930	9,736
Wyoming	9,041	9,370	8,509	395	413	461	761	1,326
Total	2,258,923	2,009,667	2,032,829	140,963	135,202	140,995	161,702	298,807

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2016-2018

(million cubic feet) – continued

State	2018				2017			
	March	February	January	Total	December	November	October	September
Alabama	2,874	2,238	5,337	22,790	3,908	2,589	1,985	1,232
Alaska	1,731	1,959	2,012	15,544	1,977	1,831	1,189	709
Arizona	NA	NA	NA	31,212	3,684	2,552	2,167	1,916
Arkansas	5,509	6,018	7,906	47,501	6,407	4,356	3,686	2,919
California	25,318	24,191	25,335	237,360	28,185	21,739	19,392	16,064
Colorado	NA	NA	NA	52,739	8,626	5,385	3,780	1,881
Connecticut	6,834	6,535	8,812	52,513	7,412	5,236	2,796	2,489
Delaware	NA	1,721	NA	13,364	2,226	1,464	836	652
District of Columbia	1,894	1,759	NA	16,040	2,671	1,383	1,001	815
Florida	5,942	5,452	6,961	61,313	6,030	5,267	4,855	4,393
Georgia	6,379	5,094	11,403	49,193	8,539	5,224	3,324	2,231
Hawaii	214	203	243	2,446	203	204	200	198
Idaho	2,058	2,417	2,592	19,777	2,925	1,924	1,494	943
Illinois	28,329	32,997	39,428	215,936	35,932	22,257	13,695	8,818
Indiana	10,808	11,022	15,928	75,312	13,712	8,404	4,996	2,765
Iowa	6,280	7,778	9,516	49,710	7,870	5,820	3,597	1,803
Kansas	3,698	5,265	6,258	34,483	5,286	3,308	2,314	1,683
Kentucky	4,647	4,620	7,751	32,796	6,258	3,761	2,045	1,378
Louisiana	2,762	2,460	4,643	28,316	3,929	2,647	2,199	1,795
Maine	1,170	1,183	1,603	8,925	1,518	939	382	299
Maryland	9,836	8,352	11,420	72,279	11,519	7,306	3,850	3,237
Massachusetts	NA	16,624	18,587	109,470	17,939	11,692	5,467	4,243
Michigan	24,178	24,556	30,937	162,634	26,445	16,897	8,273	5,952
Minnesota	13,400	17,365	18,524	99,756	16,759	11,138	5,491	3,066
Mississippi	1,805	1,861	3,978	17,643	2,697	1,758	1,460	1,011
Missouri	8,054	9,882	12,402	57,903	10,275	5,864	2,812	2,361
Montana	3,266	3,671	3,600	23,374	3,524	2,643	1,683	1,010
Nebraska	3,699	4,942	5,369	29,018	4,384	3,033	1,689	1,006
Nevada	3,595	3,593	3,762	32,200	4,043	2,658	2,300	1,902
New Hampshire	1,312	1,216	1,853	9,078	1,685	1,034	388	244
New Jersey	21,624	19,869	26,697	148,948	24,082	13,261	8,960	6,624
New Mexico	2,934	2,778	4,053	23,624	3,967	2,294	1,845	1,131
New York	38,731	36,591	47,822	310,211	45,947	31,356	16,690	14,701
North Carolina	8,010	5,992	10,887	53,726	8,507	5,821	3,906	2,763
North Dakota	NA	2,273	2,223	12,957	2,013	1,594	875	461
Ohio	23,485	21,655	31,718	156,979	28,898	17,574	9,170	5,506
Oklahoma	4,474	7,183	8,523	37,834	6,832	3,547	2,110	1,581
Oregon	3,507	NA	3,982	31,763	4,918	3,172	2,158	1,147
Pennsylvania	24,385	20,019	29,783	145,910	22,264	17,272	7,825	4,993
Rhode Island	1,818	1,522	2,301	11,338	2,161	1,154	447	252
South Carolina	3,033	2,262	3,955	22,923	3,089	2,362	1,783	1,314
South Dakota	NA	1,865	2,017	10,813	1,755	1,180	705	367
Tennessee	NA	6,467	11,305	49,042	8,865	5,610	3,317	2,387
Texas	19,350	21,089	28,663	164,797	19,301	13,913	12,127	10,270
Utah	5,701	5,142	6,169	41,264	7,489	4,406	2,792	1,435
Vermont	775	703	988	6,205	932	752	401	342
Virginia	10,119	7,796	NA	68,162	10,474	6,914	4,272	3,449
Washington	7,057	7,207	7,457	60,096	8,465	6,198	4,296	2,513
West Virginia	3,234	2,828	3,923	22,421	3,529	2,283	1,387	1,080
Wisconsin	11,510	13,839	16,523	90,470	14,817	10,017	5,179	3,025
Wyoming	1,751	1,990	1,945	13,972	1,818	1,320	1,021	443
Total	413,587	419,965	547,703	3,164,078	486,690	322,309	200,614	144,797

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017							
	August	July	June	May	April	March	February	January
Alabama	1,107	1,047	1,074	1,273	1,204	2,288	2,075	3,009
Alaska	550	500	530	855	1,153	2,052	1,857	2,342
Arizona	1,874	1,864	1,968	2,287	2,538	2,946	3,408	4,008
Arkansas	2,899	2,706	2,749	3,088	3,108	4,498	4,630	6,454
California	16,197	15,166	14,780	16,236	17,263	19,968	22,408	29,963
Colorado	1,714	1,639	1,741	3,068	4,041	5,210	6,209	9,446
Connecticut	2,419	2,437	2,313	2,732	3,818	7,026	6,332	7,504
Delaware	573	499	561	721	751	1,693	1,504	1,885
District of Columbia	825	835	847	1,009	1,088	1,826	1,613	2,127
Florida	4,398	4,394	4,646	4,880	5,290	5,716	5,344	6,099
Georgia	2,211	2,164	2,215	2,593	2,817	5,420	5,191	7,263
Hawaii	202	194	214	192	201	211	200	226
Idaho	732	704	719	959	1,350	1,765	2,492	3,769
Illinois	8,054	7,691	7,562	12,632	13,522	25,919	24,486	35,368
Indiana	2,390	2,231	2,437	3,621	4,419	9,268	8,353	12,716
Iowa	1,580	1,598	1,753	2,283	3,277	5,799	6,003	8,329
Kansas	1,743	1,578	1,565	1,770	2,536	3,442	3,454	5,805
Kentucky	1,136	1,042	1,100	1,337	1,660	3,883	3,815	5,382
Louisiana	1,907	1,790	1,925	2,024	2,057	2,588	2,287	3,168
Maine	290	289	306	462	695	1,291	1,150	1,304
Maryland	3,264	3,541	3,025	4,215	4,284	9,628	8,036	10,372
Massachusetts	4,076	3,832	3,968	5,859	7,397	16,154	13,289	15,554
Michigan	5,409	5,045	5,966	8,793	11,198	21,859	20,749	26,049
Minnesota	2,867	2,860	3,117	4,853	7,465	12,305	12,893	16,943
Mississippi	979	893	903	1,101	987	1,776	1,704	2,374
Missouri	2,290	2,089	2,248	2,850	3,317	6,534	6,673	10,591
Montana	685	670	753	1,095	1,711	2,475	3,028	4,096
Nebraska	807	1,037	1,192	1,500	2,067	3,233	3,688	5,382
Nevada	1,704	1,758	1,908	2,189	2,596	3,089	3,525	4,528
New Hampshire	256	192	239	425	564	1,439	1,165	1,446
New Jersey	4,874	5,572	6,462	8,134	9,270	20,983	18,252	22,474
New Mexico	1,120	1,048	997	1,259	1,696	1,932	2,446	3,888
New York	14,852	14,113	14,499	17,995	21,285	40,877	36,302	41,596
North Carolina	2,709	2,628	2,394	3,008	2,997	6,205	5,153	7,633
North Dakota	352	307	320	489	892	1,644	1,703	2,307
Ohio	5,112	4,685	5,040	7,188	8,459	20,894	18,787	25,666
Oklahoma	1,566	1,449	1,551	1,872	2,355	3,479	4,396	7,097
Oregon	851	890	1,195	1,674	2,466	3,318	4,110	5,864
Pennsylvania	4,725	4,818	5,072	7,328	9,184	20,573	18,873	22,984
Rhode Island	256	262	297	536	749	1,883	1,501	1,840
South Carolina	1,301	1,393	1,273	1,513	1,488	2,489	2,105	2,814
South Dakota	308	302	341	488	756	1,294	1,344	1,973
Tennessee	2,120	2,051	2,123	2,559	2,506	5,230	5,140	7,133
Texas	10,389	10,427	10,176	11,204	12,125	14,586	16,435	23,843
Utah	1,197	1,281	1,727	1,958	3,171	3,419	4,609	7,780
Vermont	317	292	194	332	375	774	678	814
Virginia	3,280	3,354	2,985	3,875	4,071	8,574	7,248	9,667
Washington	2,171	2,222	2,464	3,505	4,786	6,434	7,492	9,551
West Virginia	1,021	968	1,018	1,219	1,558	2,754	2,535	3,069
Wisconsin	3,147	2,883	3,068	4,498	6,319	11,248	10,879	15,389
Wyoming	401	408	519	938	1,098	1,714	1,885	2,406
Total	137,208	133,637	138,042	178,475	211,980	371,604	359,433	479,288

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2016-2018

(million cubic feet) – continued

State	2016							
	Total	December	November	October	September	August	July	June
Alabama	23,552	3,314	2,270	1,502	1,029	1,045	1,007	1,171
Alaska	15,953	2,277	1,986	1,400	866	639	566	664
Arizona	34,010	4,017	2,925	2,197	1,984	1,947	1,960	2,114
Arkansas	45,810	6,235	4,035	3,024	2,732	2,602	2,468	2,561
California	236,967	28,868	22,313	17,303	16,696	17,665	15,669	16,005
Colorado	54,265	9,068	5,113	2,823	1,812	1,494	1,637	1,833
Connecticut	50,258	7,106	4,847	3,180	2,467	2,463	2,444	2,107
Delaware	12,340	1,865	1,259	862	596	566	519	516
District of Columbia	15,648	2,011	1,577	898	675	699	688	639
Florida	62,526	5,912	5,252	4,706	4,549	4,283	4,637	4,546
Georgia	51,327	7,639	4,604	2,574	2,086	2,066	2,007	2,052
Hawaii	2,384	210	205	201	212	202	192	190
Idaho	17,598	3,274	1,658	1,266	811	712	668	664
Illinois	212,482	35,004	17,391	12,700	8,283	7,988	7,986	7,348
Indiana	74,131	13,295	6,368	4,328	2,719	2,477	2,087	2,175
Iowa	49,414	8,367	4,181	2,969	2,053	1,827	1,758	1,604
Kansas	34,757	5,714	2,687	2,056	1,640	1,674	1,607	1,723
Kentucky	33,520	5,920	2,991	1,698	1,176	1,127	1,066	1,012
Louisiana	28,931	3,405	2,449	2,094	1,902	1,969	1,784	1,815
Maine	8,559	1,319	771	523	291	280	284	311
Maryland	70,500	9,758	6,916	4,184	3,228	2,978	2,883	3,249
Massachusetts	104,850	15,614	10,251	7,159	4,249	4,040	3,804	3,735
Michigan	158,613	24,658	13,187	8,229	5,363	5,186	5,030	5,237
Minnesota	92,591	14,792	8,031	5,391	2,948	2,840	2,674	3,075
Mississippi	18,135	2,369	1,610	1,097	988	972	949	1,158
Missouri	56,968	10,063	5,473	2,951	1,981	2,119	2,039	2,033
Montana	21,314	3,947	2,238	1,556	934	742	732	764
Nebraska	26,971	4,892	2,339	1,259	954	930	960	1,048
Nevada	31,125	4,003	2,639	2,154	1,836	1,723	1,771	1,783
New Hampshire	8,509	1,486	892	365	234	203	200	248
New Jersey	153,096	23,599	11,716	7,835	7,339	8,213	8,165	7,963
New Mexico	24,954	3,981	3,332	1,534	1,170	1,053	1,009	1,117
New York	302,572	40,052	27,357	20,743	14,980	16,361	15,036	14,898
North Carolina	55,876	7,468	5,301	3,360	2,792	2,791	2,585	2,583
North Dakota	11,810	2,344	1,034	795	356	300	303	296
Ohio	152,478	24,175	14,607	8,563	4,897	4,901	4,191	4,163
Oklahoma	37,064	6,770	2,879	1,878	1,619	1,576	1,424	1,499
Oregon	26,667	5,055	2,520	1,949	1,071	697	926	1,046
Pennsylvania	142,724	23,333	13,683	8,461	4,845	4,607	4,419	4,886
Rhode Island	10,744	1,843	1,019	572	233	167	174	234
South Carolina	23,734	2,840	2,424	1,588	1,284	1,300	1,135	1,255
South Dakota	10,439	1,968	964	590	349	298	299	302
Tennessee	49,809	8,028	4,716	2,548	2,049	1,957	1,948	1,945
Texas	164,306	19,848	12,834	10,547	9,892	9,890	9,940	11,194
Utah	39,066	7,032	4,221	1,971	1,358	1,036	1,245	1,083
Vermont	6,251	845	575	495	353	355	350	310
Virginia	67,553	8,363	7,390	4,447	2,938	2,754	2,736	3,134
Washington	51,634	8,699	4,816	3,829	2,518	2,192	2,290	2,466
West Virginia	22,698	3,164	2,079	1,350	999	1,007	1,065	989
Wisconsin	88,679	14,625	7,421	4,882	3,140	3,058	2,865	3,160
Wyoming	13,425	2,256	1,253	851	556	467	431	435
Total	3,109,584	462,687	280,600	191,437	142,031	140,436	134,609	138,340

See footnotes at end of table.

Table 15. Natural gas deliveries to commercial consumers, by state, 2016-2018
(million cubic feet) – continued

State	2016				
	May	April	March	February	January
Alabama	1,235	1,488	1,816	3,092	4,582
Alaska	826	1,201	1,664	1,753	2,110
Arizona	2,397	2,723	3,066	3,762	4,918
Arkansas	2,879	3,143	4,237	5,576	6,318
California	16,478	17,218	20,549	21,460	26,743
Colorado	3,120	4,606	6,191	7,280	9,288
Connecticut	2,826	3,746	5,111	6,810	7,153
Delaware	668	898	1,071	1,595	1,926
District of Columbia	877	1,222	1,297	2,469	2,596
Florida	4,878	5,279	5,668	6,135	6,679
Georgia	2,437	3,221	4,392	7,910	10,341
Hawaii	187	200	195	192	197
Idaho	865	1,009	1,734	2,111	2,827
Illinois	10,636	16,018	21,675	31,008	36,445
Indiana	3,276	5,162	6,491	11,412	14,341
Iowa	2,134	3,531	4,933	7,139	8,918
Kansas	2,045	2,124	2,969	4,496	6,023
Kentucky	1,523	1,798	3,178	5,408	6,623
Louisiana	2,109	2,136	2,247	2,777	4,243
Maine	471	789	1,018	1,168	1,333
Maryland	4,159	5,514	6,514	9,691	11,424
Massachusetts	5,675	8,886	10,864	14,235	16,338
Michigan	8,584	14,403	18,468	24,382	25,886
Minnesota	4,573	7,290	10,263	14,112	16,600
Mississippi	1,192	1,019	1,435	2,208	3,137
Missouri	2,666	3,235	5,205	8,517	10,686
Montana	1,136	1,461	2,230	2,390	3,184
Nebraska	1,267	1,817	2,565	3,846	5,094
Nevada	2,183	2,421	2,801	3,408	4,404
New Hampshire	381	716	962	1,283	1,539
New Jersey	8,929	11,456	15,021	19,959	22,901
New Mexico	1,249	1,558	2,196	2,815	3,942
New York	16,834	23,284	28,203	39,285	45,539
North Carolina	2,879	3,743	4,281	7,910	10,183
North Dakota	422	1,026	1,189	1,629	2,115
Ohio	6,641	12,085	14,931	23,507	29,819
Oklahoma	2,004	2,122	3,299	4,864	7,129
Oregon	1,318	1,797	2,922	3,165	4,202
Pennsylvania	6,755	10,708	13,281	21,414	26,331
Rhode Island	549	977	1,247	1,747	1,983
South Carolina	1,395	1,849	1,845	2,982	3,836
South Dakota	482	820	1,053	1,395	1,918
Tennessee	2,522	2,854	4,180	7,279	9,783
Texas	10,404	12,955	14,500	18,764	23,538
Utah	2,026	2,794	4,002	5,361	6,937
Vermont	290	520	523	724	911
Virginia	3,411	5,150	6,296	9,338	11,597
Washington	2,855	3,115	5,552	5,867	7,434
West Virginia	1,216	1,656	2,330	3,075	3,768
Wisconsin	4,577	7,205	9,265	13,209	15,271
Wyoming	856	1,107	1,521	1,634	2,059
Total	171,297	233,059	298,447	413,548	503,093

^R Revised data.

^{NA} Not available.

Notes: Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.

Source: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 16. Natural gas deliveries to industrial consumers, by state, 2016-2018

(million cubic feet)

State	2018	2017	2016	2018				
	8-Month YTD	8-Month YTD	8-Month YTD	August	July	June	May	April
Alabama	133,887	130,230	130,376	16,032	16,027	16,033	16,618	16,632
Alaska	3,433	3,002	2,334	412	415	363	392	352
Arizona	13,120	12,792	12,966	1,503	1,427	1,454	1,581	1,633
Arkansas	NA	65,682	58,151	8,613	7,861	7,618	8,164	8,862
California	505,974	500,542	512,463	69,997	66,120	61,794	63,220	60,237
Colorado	57,024	55,829	52,483	5,466	5,394	5,332	6,156	7,498
Connecticut	16,459	16,276	15,979	1,824	1,785	1,696	1,614	1,905
Delaware	NA	19,239	20,707	2,218	NA	NA	NA	NA
District of Columbia	0	0	0	0	0	0	0	0
Florida	NA	68,623	69,193	7,317	7,004	NA	8,780	9,002
Georgia	104,730	101,018	102,069	13,172	12,767	12,877	12,780	12,864
Hawaii	NA	59	57	8	8	8	8	8
Idaho	21,758	23,088	22,026	2,332	2,285	2,244	2,458	2,541
Illinois	169,218	165,793	166,639	18,341	17,863	16,728	17,685	21,568
Indiana	NA	248,273	253,528	31,836	33,565	31,796	34,496	34,679
Iowa	164,725	159,279	120,502	20,360	19,906	18,735	18,991	20,552
Kansas	87,976	83,893	83,914	10,328	11,250	9,934	10,272	10,951
Kentucky	77,493	74,784	76,874	8,300	8,112	7,834	8,648	9,996
Louisiana	NA	717,514	696,768	93,358	93,811	95,929	96,531	91,519
Maine	11,953	11,367	12,770	1,457	1,448	1,189	1,152	1,468
Maryland	NA	10,190	10,296	1,275	1,352	1,118	1,482	NA
Massachusetts	32,984	31,728	30,523	2,542	2,558	2,964	3,153	5,029
Michigan	NA	110,499	113,615	12,221	11,267	11,666	12,204	15,346
Minnesota	105,748	110,493	110,145	11,144	11,401	10,875	11,979	13,598
Mississippi	90,896	84,402	78,435	11,087	10,490	11,155	11,533	11,955
Missouri	43,154	41,284	42,555	4,628	4,372	4,346	4,303	5,545
Montana	16,508	13,213	13,529	2,011	2,121	2,044	1,888	1,744
Nebraska	55,770	58,807	58,626	6,244	7,289	6,517	6,432	6,953
Nevada	13,612	12,525	11,846	1,738	1,828	1,534	1,518	1,646
New Hampshire	NA	6,338	5,688	679	686	689	779	871
New Jersey	NA	36,881	40,443	3,431	3,584	3,459	NA	NA
New Mexico	NA	10,079	10,640	NA	1,424	1,449	1,603	NA
New York	NA	52,945	53,011	6,342	6,275	NA	5,842	8,231
North Carolina	NA	68,854	70,611	9,102	8,717	8,773	8,942	9,817
North Dakota	23,001	21,825	19,545	2,887	2,861	2,761	2,507	3,158
Ohio	191,045	181,876	183,514	19,587	19,531	20,453	21,812	24,820
Oklahoma	137,570	132,264	131,466	16,622	15,301	16,083	17,685	17,743
Oregon	35,975	38,536	37,895	4,059	3,986	4,174	4,314	4,572
Pennsylvania	152,679	142,703	139,843	17,134	17,002	16,727	17,706	20,183
Rhode Island	5,893	5,755	5,628	656	623	652	741	809
South Carolina	NA	59,720	58,317	7,707	7,487	7,579	7,779	8,205
South Dakota	NA	30,154	29,410	3,637	3,530	3,576	3,591	NA
Tennessee	NA	89,993	80,937	11,481	11,173	11,610	11,132	12,717
Texas	1,187,186	1,106,587	1,081,040	150,647	153,149	145,163	150,337	147,085
Utah	26,801	26,759	25,782	2,941	2,941	3,152	3,223	3,449
Vermont	1,485	1,438	1,417	161	154	156	173	193
Virginia	NA	62,423	59,229	6,586	7,762	NA	7,771	7,558
Washington	NA	52,364	51,136	5,876	5,806	5,806	5,935	6,241
West Virginia	22,869	25,078	19,846	2,894	2,840	2,508	2,502	2,590
Wisconsin	109,603	99,848	94,982	11,176	10,546	10,590	11,949	14,827
Wyoming	NA	35,814	34,038	4,742	4,555	4,081	NA	4,763
Total	5,474,118	5,218,658	5,113,787	655,334	652,067	637,120	659,402	685,481

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2016-2018

(million cubic feet) – continued

State	2018				2017			
	March	February	January	Total	December	November	October	September
Alabama	17,536	16,146	18,864	196,686	18,546	16,591	15,959	15,361
Alaska	439	525	535	4,156	395	305	239	215
Arizona	1,788	1,766	1,966	19,250	1,999	1,498	1,573	1,387
Arkansas	9,051	8,829	NA	100,251	9,549	8,536	8,717	7,766
California	63,615	57,100	63,893	760,661	66,073	62,097	64,587	67,363
Colorado	8,209	9,232	9,736	84,914	9,236	7,830	6,938	5,080
Connecticut	2,520	2,340	2,776	24,557	2,604	2,348	1,664	1,665
Delaware	NA	NA	3,963	29,860	2,511	2,534	2,647	2,927
District of Columbia	0	0	0	0	0	0	0	0
Florida	9,867	7,889	10,123	103,417	9,700	8,977	8,841	7,277
Georgia	14,189	11,966	14,116	150,172	13,801	13,207	11,771	10,375
Hawaii	7	7	NA	85	5	7	7	8
Idaho ^a	3,270	3,099	3,529	35,856	3,492	3,326	3,248	2,701
Illinois	24,356	23,803	28,874	258,841	28,905	24,949	20,943	18,252
Indiana	39,247	37,558	NA	379,118	39,292	32,914	29,353	29,286
Iowa	22,276	20,873	23,032	241,187	23,040	21,394	18,916	18,558
Kansas	11,204	11,183	12,855	127,653	12,437	11,451	9,490	10,383
Kentucky	11,328	10,924	12,352	113,582	11,385	10,094	9,133	8,186
Louisiana	93,184	90,394	NA	1,096,400	100,026	95,589	93,604	89,667
Maine	1,703	1,637	1,900	17,698	1,892	1,752	1,396	1,291
Maryland	NA	NA	2,093	15,744	1,549	1,545	1,255	1,205
Massachusetts	5,274	5,340	6,125	47,004	5,754	4,138	2,860	2,524
Michigan	18,246	NA	19,443	170,189	19,301	15,375	13,700	11,313
Minnesota	14,896	15,299	16,557	165,901	15,419	14,756	12,890	12,342
Mississippi	11,777	10,772	12,126	128,356	11,839	11,234	10,449	10,432
Missouri	6,225	6,762	6,973	63,158	6,841	5,617	5,105	4,311
Montana	2,099	2,259	2,343	23,393	2,756	2,668	2,668	2,088
Nebraska	7,321	7,383	7,631	89,521	8,325	7,795	7,870	6,724
Nevada	1,851	1,675	1,823	19,269	1,832	1,646	1,737	1,530
New Hampshire	916	NA	947	9,499	941	818	725	677
New Jersey	NA	NA	NA	54,298	4,845	4,086	4,941	3,545
New Mexico	1,506	1,314	1,498	15,412	1,486	1,304	1,327	1,215
New York	8,806	8,834	9,652	82,779	9,123	8,387	6,613	5,711
North Carolina	11,028	9,460	NA	107,373	10,727	10,190	9,444	8,158
North Dakota	2,898	2,909	3,020	32,127	3,244	2,603	2,658	1,797
Ohio	27,130	27,015	30,698	277,767	29,055	25,226	21,235	20,375
Oklahoma	18,194	17,483	18,458	199,576	17,611	16,344	17,006	16,351
Oregon	5,035	4,610	5,225	57,849	5,265	4,791	4,894	4,363
Pennsylvania	21,739	19,444	22,745	219,028	21,967	20,038	17,812	16,507
Rhode Island	727	843	842	8,551	773	709	641	673
South Carolina	NA	7,598	7,463	91,644	8,265	8,536	8,064	7,059
South Dakota	3,942	4,244	4,267	45,481	4,246	3,996	3,530	3,555
Tennessee	12,060	11,933	NA	134,555	12,987	10,700	10,473	10,403
Texas	149,515	134,557	156,733	1,681,634	155,675	146,275	142,341	130,756
Utah	3,361	3,797	3,937	40,007	3,874	3,380	2,947	3,048
Vermont	219	204	224	2,191	226	204	166	158
Virginia	8,194	8,179	8,173	94,098	8,239	8,300	7,583	7,553
Washington	NA	7,560	7,651	80,656	7,720	6,995	7,290	6,287
West Virginia	2,917	3,082	3,535	38,358	3,596	3,444	3,193	3,046
Wisconsin	15,964	16,229	18,322	154,920	17,463	14,978	12,171	10,461
Wyoming	4,989	4,928	4,979	54,512	5,483	4,635	4,389	4,192
Total	726,047	688,563	770,106	7,949,199	761,315	696,113	657,005	616,109

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017							
	August	July	June	May	April	March	February	January
Alabama	15,837	15,690	15,792	16,284	15,914	17,380	15,521	17,810
Alaska	241	200	341	374	403	473	468	502
Arizona	1,374	1,331	1,348	1,560	1,582	1,753	1,780	2,064
Arkansas	7,936	7,577	7,754	8,214	7,911	8,428	8,369	9,493
California	69,045	64,345	60,312	62,370	60,361	62,969	56,866	64,275
Colorado	5,415	5,273	5,382	6,685	7,107	7,806	7,890	10,271
Connecticut	1,737	1,750	1,691	1,756	1,848	2,633	2,217	2,644
Delaware	2,492	2,272	2,424	2,316	1,837	2,353	2,657	2,888
District of Columbia	0	0	0	0	0	0	0	0
Florida	8,360	8,082	7,874	8,590	8,494	9,403	8,369	9,450
Georgia	12,475	12,212	12,582	12,594	11,774	13,764	12,166	13,451
Hawaii	8	7	7	7	7	8	7	8
Idaho ^a	2,259	2,470	2,453	2,739	2,817	3,180	3,273	3,897
Illinois	18,199	17,082	17,387	19,237	20,040	23,713	22,906	27,228
Indiana	28,791	28,373	27,048	28,706	30,510	34,796	32,500	37,551
Iowa	19,383	19,224	19,011	19,588	19,374	21,556	19,552	21,591
Kansas	11,177	11,787	10,250	9,317	10,133	10,059	10,103	11,066
Kentucky	8,383	7,998	8,470	9,191	9,028	10,431	9,855	11,429
Louisiana	93,269	90,756	88,608	89,293	88,029	90,433	82,593	94,532
Maine	1,229	1,300	1,200	1,257	1,435	1,634	1,567	1,745
Maryland	1,133	1,183	1,294	1,234	1,040	1,535	1,281	1,490
Massachusetts	2,521	2,494	2,712	3,205	4,319	5,615	5,144	5,717
Michigan	11,794	10,642	10,688	12,253	12,863	17,286	16,158	18,815
Minnesota	12,902	12,244	12,617	12,857	13,737	14,916	14,740	16,480
Mississippi	10,624	10,028	10,107	10,741	10,451	11,032	10,303	11,114
Missouri	4,557	4,367	4,327	4,679	4,834	5,869	5,637	7,014
Montana	1,930	1,817	1,470	1,158	1,341	1,731	1,724	2,042
Nebraska	7,276	7,653	6,272	6,928	7,076	7,413	7,670	8,520
Nevada	1,581	1,454	1,482	1,470	1,526	1,672	1,518	1,821
New Hampshire	658	680	676	759	853	911	910	892
New Jersey	3,830	4,099	4,479	4,363	4,045	5,556	5,033	5,475
New Mexico	1,260	1,265	1,221	1,277	1,214	1,122	1,212	1,509
New York	5,760	5,605	5,445	5,516	6,385	8,235	7,536	8,464
North Carolina	8,420	7,805	8,109	8,311	8,284	9,631	8,662	9,633
North Dakota	2,491	2,506	2,749	2,849	2,900	3,045	2,358	2,928
Ohio	19,389	19,040	18,629	21,099	22,328	26,700	25,763	28,927
Oklahoma	16,119	15,682	15,878	16,580	17,059	17,746	15,395	17,804
Oregon	4,270	4,137	4,399	4,747	4,780	5,208	5,093	5,901
Pennsylvania	15,614	15,801	15,971	16,819	17,066	21,082	19,076	21,275
Rhode Island	672	644	660	666	799	716	791	806
South Carolina	7,447	6,996	7,138	7,435	7,212	8,092	7,251	8,149
South Dakota	3,642	3,589	3,569	3,663	3,632	3,932	3,812	4,314
Tennessee	10,891	10,480	10,639	11,033	10,673	11,984	11,690	12,602
Texas	140,307	142,969	139,976	133,114	131,927	140,426	132,346	145,522
Utah	2,907	3,035	3,112	3,247	3,480	3,390	3,810	3,779
Vermont	164	158	158	158	167	215	196	222
Virginia	7,439	6,704	7,845	7,899	8,037	8,477	8,079	7,943
Washington	6,088	5,935	5,952	6,065	6,277	7,011	6,861	8,175
West Virginia	3,101	2,953	3,005	2,931	2,734	3,468	3,228	3,658
Wisconsin	10,954	10,268	9,988	11,080	11,765	15,105	13,844	16,843
Wyoming	4,199	3,973	4,015	4,380	4,591	4,948	4,618	5,089
Total	637,549	623,935	614,517	628,595	632,002	696,841	650,397	734,820

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2016-2018

(million cubic feet) – continued

State	2016							
	Total	December	November	October	September	August	July	June
Alabama	192,424	17,008	15,519	15,062	14,459	14,876	14,949	15,396
Alaska	4,268	466	493	538	436	261	307	363
Arizona	19,765	1,914	1,646	1,664	1,576	1,386	1,334	1,542
Arkansas	87,876	8,486	7,552	7,040	6,647	7,042	6,584	6,588
California	774,503	66,492	62,917	63,793	68,838	72,768	66,480	62,672
Colorado	80,432	9,453	7,221	6,109	5,165	5,245	5,117	4,982
Connecticut	24,271	2,671	2,213	1,745	1,663	1,733	1,685	1,602
Delaware	31,457	2,776	2,573	2,742	2,659	2,573	2,690	2,333
District of Columbia	0	0	0	0	0	0	0	0
Florida	103,658	9,226	8,626	8,459	8,153	8,430	8,339	7,619
Georgia	152,311	13,477	12,606	12,638	11,521	11,715	11,878	11,834
Hawaii	83	6	6	7	7	9	8	6
Idaho	34,761	3,788	3,171	3,117	2,659	2,252	2,524	2,136
Illinois	254,682	27,068	22,155	20,311	18,509	17,490	17,546	16,347
Indiana	370,944	37,404	28,293	24,640	27,079	27,964	29,019	29,036
Iowa	189,618	20,144	18,423	16,354	14,196	15,025	14,362	14,127
Kansas	124,071	12,773	9,908	9,143	8,334	12,061	10,987	9,304
Kentucky	115,201	11,095	10,031	9,002	8,199	8,561	8,169	8,237
Louisiana	1,048,751	93,894	88,053	85,526	84,510	87,364	88,601	85,217
Maine	18,983	1,528	1,407	1,692	1,586	1,584	1,565	1,415
Maryland	15,400	1,634	1,147	1,302	1,021	1,230	1,246	1,084
Massachusetts	45,721	5,214	4,191	3,312	2,481	2,402	2,466	2,832
Michigan	172,006	18,444	14,564	13,227	12,156	11,474	10,754	11,265
Minnesota	162,818	16,003	13,777	12,022	10,872	12,081	12,192	11,710
Mississippi	116,105	10,738	9,931	8,326	8,675	9,571	9,590	9,838
Missouri	63,630	6,736	5,256	4,457	4,627	4,299	4,450	4,383
Montana	21,233	1,857	2,132	1,875	1,840	1,639	1,661	1,508
Nebraska	91,021	8,388	8,304	8,066	7,636	9,161	8,443	7,125
Nevada	18,327	1,826	1,517	1,629	1,509	1,438	1,391	1,427
New Hampshire	8,454	768	722	653	623	587	593	568
New Jersey	60,910	5,368	4,500	5,411	5,188	5,381	5,638	5,274
New Mexico	16,109	1,524	1,393	1,321	1,232	1,209	1,252	1,220
New York	80,850	8,722	7,103	6,423	5,591	5,835	5,452	5,384
North Carolina	105,504	9,626	8,939	8,628	7,701	8,374	7,745	7,671
North Dakota	31,232	2,615	3,016	3,194	2,862	2,013	2,176	2,782
Ohio	275,358	27,736	23,434	21,355	19,318	18,882	19,109	19,658
Oklahoma	193,703	17,713	15,596	15,060	13,868	15,755	15,913	15,793
Oregon	57,760	5,707	4,759	4,927	4,473	4,334	4,258	4,280
Pennsylvania	212,253	20,665	19,496	17,368	14,881	16,265	14,825	14,580
Rhode Island	8,474	734	677	694	742	662	605	652
South Carolina	88,148	7,957	7,852	7,159	6,862	6,901	6,770	7,011
South Dakota	44,570	4,106	3,952	3,565	3,537	3,662	3,402	3,386
Tennessee	122,953	12,160	10,532	9,986	9,338	9,638	9,289	9,493
Texas	1,649,759	154,444	140,148	137,229	136,898	143,182	142,462	128,351
Utah	38,568	3,460	3,201	3,130	2,995	2,735	2,822	3,036
Vermont	2,172	217	199	185	153	140	140	151
Virginia	88,422	7,661	7,546	6,455	7,531	7,432	7,352	7,195
Washington	79,275	7,901	6,687	7,137	6,414	5,964	6,013	5,731
West Virginia	32,281	3,406	3,319	3,002	2,710	2,586	2,715	2,417
Wisconsin	144,801	16,022	12,478	11,393	9,927	10,067	9,335	9,793
Wyoming	52,810	5,173	4,937	4,648	4,013	4,304	4,274	4,040
Total	7,728,688	734,194	654,119	622,720	603,868	627,541	616,480	590,392

See footnotes at end of table.

Table 16. Natural gas deliveries to industrial consumers, by state, 2016-2018
(million cubic feet) – continued

State	2016				
	May	April	March	February	January
Alabama	16,896	16,023	16,861	16,687	18,689
Alaska	261	183	237	243	479
Arizona	1,591	1,582	1,708	1,793	2,030
Arkansas	7,024	7,097	7,563	7,673	8,580
California	63,228	61,518	62,641	58,878	64,278
Colorado	6,141	6,624	7,543	7,705	9,126
Connecticut	1,714	1,921	2,044	2,517	2,763
Delaware	2,643	2,464	2,666	2,517	2,821
District of Columbia	0	0	0	0	0
Florida	8,566	8,977	9,069	8,655	9,538
Georgia	12,662	12,372	13,421	13,817	14,370
Hawaii	7	7	6	7	7
Idaho ^a	2,462	2,492	3,184	3,333	3,644
Illinois	18,791	20,144	23,105	25,499	27,716
Indiana	31,205	31,458	33,805	34,111	36,930
Iowa	14,314	13,992	15,810	15,850	17,022
Kansas	9,241	9,362	10,366	10,736	11,858
Kentucky	9,171	9,448	10,354	10,914	12,020
Louisiana	87,931	85,724	88,194	83,366	90,371
Maine	1,569	1,603	1,800	1,550	1,685
Maryland	1,217	1,264	1,528	1,416	1,311
Massachusetts	3,161	4,160	4,604	5,317	5,581
Michigan	11,856	14,586	16,471	18,123	19,086
Minnesota	12,504	13,333	15,566	15,388	17,372
Mississippi	9,772	9,646	9,098	10,106	10,814
Missouri	4,950	4,937	5,553	7,122	6,860
Montana	1,660	1,459	1,690	1,851	2,061
Nebraska	6,787	6,588	6,730	6,541	7,251
Nevada	1,477	1,512	1,556	1,442	1,603
New Hampshire	680	726	803	862	869
New Jersey	4,369	4,820	4,181	4,731	6,048
New Mexico	1,297	1,234	1,437	1,449	1,541
New York	5,161	6,993	7,821	8,250	8,114
North Carolina	8,442	8,635	9,197	10,050	10,497
North Dakota	2,811	2,083	2,665	2,263	2,753
Ohio	21,364	22,601	24,852	27,286	29,762
Oklahoma	17,437	16,462	16,558	15,612	17,935
Oregon	4,580	4,618	5,105	4,998	5,723
Pennsylvania	15,741	17,592	19,230	20,507	21,103
Rhode Island	691	728	760	799	730
South Carolina	7,448	7,465	7,539	7,284	7,900
South Dakota	3,480	3,645	3,785	3,932	4,117
Tennessee	9,394	9,550	10,158	11,181	12,233
Texas	128,630	126,871	137,784	131,520	142,240
Utah	3,073	3,569	3,376	3,600	3,571
Vermont	167	192	204	204	220
Virginia	6,894	7,179	7,455	7,101	8,622
Washington	5,759	6,304	6,606	6,795	7,964
West Virginia	2,093	2,287	2,513	2,566	2,669
Wisconsin	10,206	11,961	13,086	14,381	16,152
Wyoming	4,159	4,054	4,405	4,263	4,539
Total	612,675	620,045	662,694	662,790	721,171

^a Small volumes of natural gas representing onsystem sales to industrial consumers in Idaho are included in the annual total but not in monthly components.

^R Revised data.

^{NA} Not available.

Notes: Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.

Source: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2016-2018

(million cubic feet)

State	2018	2017	2016	2018				
	8-Month YTD	8-Month YTD	8-Month YTD	August	July	June	May	April
Alabama	289,546	258,867	279,516	43,260	R45,338	R39,099	R39,671	R33,462
Alaska	23,009	16,645	19,027	4,008	R3,987	R2,592	R1,991	R2,139
Arizona	177,791	148,123	184,408	38,560	R37,336	R27,153	R20,667	R17,312
Arkansas	103,671	92,367	99,262	14,952	R15,923	R14,353	R13,251	R13,016
California	402,638	377,522	435,119	76,620	R84,973	R42,828	R29,657	R32,301
Colorado	86,702	67,263	70,791	12,743	R14,696	R12,168	R10,487	R7,543
Connecticut	86,996	69,357	83,886	14,689	R14,093	R11,464	R8,700	R8,947
Delaware	24,627	33,361	37,837	4,715	R3,337	R2,257	R3,249	R3,279
District of Columbia	--	--	*	--	--	--	--	--
Florida	847,788	807,428	821,407	131,364	R130,709	R119,196	R104,924	R96,882
Georgia	258,649	254,098	271,577	39,409	R42,689	R35,964	R33,618	R22,837
Hawaii	--	--	--	--	--	--	--	--
Idaho	W	12,488	16,800	2,845	R3,238	R1,845	R1,018	W
Illinois	W	80,017	104,626	21,600	R22,152	R14,534	R15,008	R9,179
Indiana	126,924	96,674	118,712	18,378	R19,444	R17,035	R17,451	R13,232
Iowa	35,406	16,539	16,568	5,879	R6,249	R4,779	R5,130	R4,460
Kansas	24,383	15,559	13,866	3,743	R4,716	R4,329	R5,043	R2,276
Kentucky	78,687	57,154	46,627	10,999	R10,957	R8,280	R9,701	R7,394
Louisiana	209,700	182,873	240,409	31,767	R34,691	R30,134	R28,711	R20,433
Maine	W	W	16,840	2,102	R2,005	R1,506	1,313	R918
Maryland	67,449	31,827	39,575	11,915	R11,349	R8,018	R10,889	R7,213
Massachusetts	103,285	114,334	115,213	19,330	R17,621	R10,459	R8,735	R8,497
Michigan	176,140	140,425	174,947	24,205	R23,860	R19,318	R24,187	R22,768
Minnesota	47,799	37,001	52,422	7,988	R8,731	R5,314	R5,789	R5,800
Mississippi	262,849	235,740	254,641	39,116	R39,230	R33,058	R33,549	R29,257
Missouri	48,009	29,402	38,464	7,577	R7,849	R6,421	R6,754	R2,756
Montana	W	3,363	3,810	617	R524	R280	R368	W
Nebraska	W	4,057	4,224	1,357	R1,626	R785	R1,313	W
Nevada	137,500	133,377	145,824	23,976	R25,304	R19,356	R14,347	R13,231
New Hampshire	14,229	17,705	22,292	4,153	4,186	3,043	850	616
New Jersey	198,522	191,218	229,682	34,315	R34,230	R24,002	R21,642	R21,604
New Mexico	64,446	51,951	56,032	10,317	R10,712	R9,673	R8,520	R7,315
New York	286,483	274,551	334,274	55,505	R51,802	R35,827	R31,182	R26,279
North Carolina	222,469	189,083	205,148	34,652	R38,129	R29,893	R24,827	R20,668
North Dakota	W	6,414	7,029	864	R902	R552	W	W
Ohio	199,416	130,672	148,408	29,975	R29,020	R24,168	R23,005	R21,898
Oklahoma	219,383	162,324	194,140	36,561	R41,493	R34,899	R33,932	R20,986
Oregon	73,276	48,631	65,885	14,753	R14,196	R5,663	R3,179	R6,488
Pennsylvania	358,500	284,476	336,412	61,612	R57,670	R46,610	R37,167	R37,291
Rhode Island	W	27,435	33,761	5,878	R5,566	R4,450	R3,927	R3,670
South Carolina	112,864	90,399	87,697	23,075	R21,494	R17,400	R12,351	R9,546
South Dakota	W	W	5,508	1,065	R1,207	R588	W	W
Tennessee	65,047	52,424	60,767	11,266	R11,132	R8,768	R5,411	R5,604
Texas	1,122,334	948,916	1,094,431	185,720	R201,837	R156,862	R145,064	R100,633
Utah	39,164	29,582	43,101	8,147	R8,799	R4,549	R3,814	R3,235
Vermont	7	9	6	*	2	2	*	2
Virginia	240,718	220,463	206,420	38,381	R38,111	R35,358	R27,582	R19,844
Washington	54,464	46,211	54,785	11,875	R12,207	R5,656	R3,431	R4,339
West Virginia	W	W	6,909	1,416	R1,347	R868	1,053	R1,145
Wisconsin	92,247	65,218	93,116	16,285	R16,375	R10,964	R9,113	R7,434
Wyoming	W	W	1,152	W	R329	R147	W	W
Total	7,187,617	6,177,157	6,993,355	1,199,802	R1,233,375	R952,469	R853,111	R707,363

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2016-2018

(million cubic feet) – continued

State	2018				2017			
	March	February	January	Total	December	November	October	September
Alabama	R30,330	R24,696	R33,691	387,460	30,027	30,663	31,968	35,935
Alaska	R3,017	R2,393	R2,883	27,141	2,879	2,287	2,739	2,590
Arizona	R12,787	R12,036	R11,939	222,843	15,583	12,775	21,580	24,782
Arkansas	R10,612	R10,513	R11,051	133,042	12,806	6,552	10,535	10,781
California	R48,607	R41,231	R46,420	597,171	50,535	48,013	58,492	62,609
Colorado	R8,770	R9,878	R10,417	98,427	8,882	6,641	6,431	9,209
Connecticut	R10,374	R9,458	R9,272	107,213	10,080	10,253	9,317	8,206
Delaware	R3,444	R2,373	R1,973	45,793	2,622	2,381	3,671	3,758
District of Columbia	--	--	--	*	*	--	--	--
Florida	R92,078	R82,214	R90,421	1,196,155	86,507	83,018	106,714	112,489
Georgia	R26,741	R26,274	R31,117	377,452	32,831	26,920	29,911	33,691
Hawaii	--	--	--	--	--	--	--	--
Idaho	R1,132	R1,164	R1,457	20,214	2,067	1,608	2,046	2,004
Illinois	R11,108	W	R12,821	116,882	9,016	7,543	8,982	11,325
Indiana	R12,631	R12,852	R15,902	151,820	16,492	12,651	12,159	13,843
Iowa	R3,275	R2,547	R3,088	27,706	3,249	2,098	2,623	3,197
Kansas	R1,824	R1,149	R1,302	23,257	1,582	1,563	2,518	2,034
Kentucky	R9,356	R7,509	R14,489	84,878	8,188	7,550	5,319	6,666
Louisiana	R19,558	R19,446	R24,960	272,156	21,902	15,618	26,045	25,718
Maine	R1,406	W	805	19,088	1,601	W	W	W
Maryland	R6,630	R7,656	R3,779	51,303	5,044	5,218	3,262	5,952
Massachusetts	R12,610	R13,614	R12,417	163,128	13,410	9,884	12,070	13,431
Michigan	R23,536	R16,719	R21,548	216,285	21,153	16,756	19,250	18,700
Minnesota	R5,489	R3,980	R4,707	58,713	5,661	4,496	5,591	5,964
Mississippi	R26,672	R25,981	R35,986	346,990	31,169	24,528	25,870	29,682
Missouri	R4,530	R7,184	R4,937	44,834	3,383	3,547	W	4,698
Montana	R273	R287	R337	5,118	450	340	434	532
Nebraska	R415	R274	R486	5,531	284	282	319	588
Nevada	R13,525	R13,023	R14,737	196,646	14,765	14,037	16,823	17,643
New Hampshire	242	223	916	25,975	1,429	1,850	1,668	3,324
New Jersey	R23,835	R22,040	R16,853	278,263	23,081	18,584	21,751	23,629
New Mexico	R6,829	R5,685	R5,395	75,644	6,207	4,903	5,982	6,601
New York	R27,338	R30,599	R27,950	400,403	31,253	27,835	30,115	36,648
North Carolina	R27,791	R22,478	R24,031	285,843	26,844	22,687	22,530	24,699
North Dakota	R575	W	R520	10,100	993	821	899	973
Ohio	R23,049	R22,169	R26,130	205,619	21,547	20,491	15,269	17,640
Oklahoma	R16,136	R17,416	R17,962	235,574	19,103	14,548	18,031	21,568
Oregon	R11,260	R7,384	R10,352	88,673	11,711	8,347	10,577	9,407
Pennsylvania	R41,541	R39,650	R36,958	440,807	33,147	32,340	45,997	44,848
Rhode Island	R3,598	W	R3,178	41,128	3,072	3,304	W	3,926
South Carolina	R10,433	R7,081	R11,485	135,107	9,625	10,191	12,271	12,622
South Dakota	R443	W	R549	6,467	540	427	543	707
Tennessee	R7,150	R6,543	R9,174	77,410	6,653	5,416	6,291	6,626
Texas	R106,891	R103,791	R121,536	1,383,503	110,222	88,443	110,054	125,868
Utah	R3,591	R3,245	R3,783	40,900	3,738	1,982	2,017	3,581
Vermont	1	1	--	12	1	1	*	1
Virginia	R26,511	R27,624	R27,308	327,126	27,707	26,263	21,680	31,012
Washington	R6,190	R4,501	R6,266	77,234	8,453	6,714	8,284	7,571
West Virginia	275	W	517	11,295	434	915	2,067	2,064
Wisconsin	R11,291	R10,081	R10,705	104,470	10,144	8,004	10,295	10,809
Wyoming	W	R145	W	1,268	154	90	55	116
Total	R755,745	R701,179	R784,573	9,250,066	768,229	662,814	779,799	862,068

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017							
	August	July	June	May	April	March	February	January
Alabama	41,891	43,183	33,599	30,994	29,790	30,529	23,174	25,708
Alaska	3,148	3,075	1,798	1,398	1,510	1,916	1,470	2,331
Arizona	31,174	34,001	27,480	19,077	14,165	7,307	5,396	9,522
Arkansas	14,121	16,802	13,498	13,100	11,525	11,030	7,424	4,866
California	78,072	67,121	49,346	35,394	27,417	31,506	37,508	51,157
Colorado	11,276	12,634	8,919	7,299	7,343	5,826	5,680	8,285
Connecticut	10,854	10,807	7,911	6,513	7,058	7,920	8,140	10,154
Delaware	5,123	5,481	5,034	4,977	3,096	4,208	2,807	2,635
District of Columbia	--	--	--	--	--	--	--	--
Florida	128,071	125,089	109,736	110,008	93,552	90,505	72,938	77,530
Georgia	41,187	39,860	34,495	30,628	24,262	27,563	27,669	28,434
Hawaii	--	--	--	--	--	--	--	--
Idaho	2,466	2,481	1,336	1,018	1,049	1,324	1,077	1,738
Illinois	12,376	15,559	12,488	8,386	6,401	10,068	7,394	7,345
Indiana	13,840	15,322	11,947	7,722	9,715	14,366	11,093	12,669
Iowa	3,935	3,785	1,969	1,450	1,609	1,256	952	1,583
Kansas	2,852	4,037	2,604	1,598	1,520	1,451	621	874
Kentucky	8,501	10,869	7,897	6,451	6,616	7,421	4,293	5,106
Louisiana	29,240	30,216	26,532	23,915	20,939	21,216	15,835	14,982
Maine	W	W	W	W	W	W	W	1,402
Maryland	4,900	5,951	4,624	3,267	3,780	4,637	2,708	1,960
Massachusetts	17,504	17,273	15,120	13,217	13,630	13,567	11,524	12,498
Michigan	21,353	23,797	17,749	15,867	13,869	19,052	12,299	16,439
Minnesota	7,274	8,038	3,957	3,115	2,990	3,813	2,922	4,893
Mississippi	36,360	39,236	30,537	30,306	25,274	29,604	18,842	25,581
Missouri	4,582	5,821	4,260	2,943	2,696	3,538	2,583	2,978
Montana	727	634	315	319	333	343	288	404
Nebraska	769	1,513	450	342	210	358	143	273
Nevada	22,428	22,970	19,267	14,582	11,945	12,837	13,168	16,181
New Hampshire	3,468	2,923	2,505	1,776	3,572	1,464	893	1,104
New Jersey	26,502	31,311	26,603	22,211	20,150	26,548	17,255	20,637
New Mexico	7,717	9,181	8,075	6,116	4,531	5,096	5,004	6,231
New York	44,450	47,146	37,934	28,322	25,663	33,506	26,606	30,926
North Carolina	27,503	28,212	24,265	21,983	18,297	24,879	21,931	22,013
North Dakota	1,111	1,126	761	628	628	675	624	862
Ohio	20,914	21,142	17,010	14,752	11,832	15,964	13,968	15,089
Oklahoma	29,133	34,774	24,995	18,664	16,848	12,971	10,845	14,093
Oregon	11,698	9,828	3,116	2,020	2,330	3,256	5,735	10,649
Pennsylvania	46,837	49,613	38,393	27,745	25,534	32,555	30,334	33,465
Rhode Island	4,249	4,480	3,817	3,286	3,093	2,987	2,638	2,887
South Carolina	13,429	14,172	11,987	12,820	11,209	9,993	8,927	7,863
South Dakota	865	1,071	W	352	W	452	270	490
Tennessee	7,456	8,614	7,142	3,618	6,468	8,876	5,105	5,144
Texas	166,502	176,441	142,427	111,299	97,943	93,567	75,007	85,730
Utah	6,207	5,218	3,670	2,516	2,195	2,210	2,677	4,889
Vermont	1	*	1	2	*	2	1	2
Virginia	35,320	37,392	33,514	23,226	19,393	26,434	22,401	22,783
Washington	10,262	8,374	3,605	3,452	4,295	4,373	4,100	7,748
West Virginia	1,470	1,544	1,047	496	W	W	W	W
Wisconsin	12,373	13,683	8,059	5,542	5,611	7,853	5,223	6,873
Wyoming	219	292	85	W	55	W	27	97
Total	1,033,682	1,074,275	854,087	706,151	623,889	678,970	558,740	647,362

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2016-2018

(million cubic feet) – continued

State	2016							
	Total	December	November	October	September	August	July	June
Alabama	412,913	31,015	30,551	31,645	40,185	43,070	44,142	39,006
Alaska	28,224	2,523	2,469	2,055	2,150	2,189	2,351	2,216
Arizona	255,498	9,591	12,132	20,783	28,584	36,031	36,488	31,042
Arkansas	135,317	7,146	10,822	9,016	9,071	16,253	16,153	17,126
California	666,017	54,108	48,998	63,461	64,331	78,970	71,837	61,452
Colorado	96,923	7,425	5,795	5,992	6,920	10,192	11,729	10,390
Connecticut	123,024	9,504	9,848	9,718	10,069	12,376	11,628	9,199
Delaware	54,156	2,113	3,488	5,359	5,359	7,211	7,632	6,015
District of Columbia	*	*	*	*	*	*	*	*
Florida	1,181,451	76,746	76,993	97,396	108,909	120,692	122,367	114,348
Georgia	379,284	25,902	23,983	26,055	31,766	41,343	43,072	39,622
Hawaii	--	--	--	--	--	--	--	--
Idaho	23,311	1,748	778	1,344	2,641	3,547	2,420	1,942
Illinois	145,716	8,248	8,346	11,723	12,773	19,713	23,160	13,199
Indiana	174,685	15,180	15,085	12,625	13,083	17,277	16,937	15,362
Iowa	20,886	951	843	1,116	1,408	3,477	3,103	2,230
Kansas	20,399	1,153	1,383	1,253	2,743	2,759	2,848	3,165
Kentucky	66,359	5,391	4,224	4,709	5,408	7,452	7,891	6,703
Louisiana	330,541	18,805	19,759	22,901	28,667	31,944	38,612	33,563
Maine	22,366	813	1,119	1,766	1,829	3,554	3,241	1,765
Maryland	49,486	585	459	3,346	5,521	10,580	9,969	3,737
Massachusetts	156,433	10,256	7,743	9,112	14,109	21,402	21,487	17,082
Michigan	242,787	15,595	17,274	17,156	17,814	30,330	25,486	21,471
Minnesota	65,227	2,892	3,322	3,309	3,281	10,175	8,456	6,090
Mississippi	367,040	27,542	21,348	27,237	36,271	37,750	39,499	36,028
Missouri	52,480	3,732	2,225	3,143	4,917	6,692	7,261	7,435
Montana	5,363	335	313	404	501	636	649	570
Nebraska	5,791	180	679	452	257	931	961	1,344
Nevada	209,901	15,924	15,676	15,312	17,165	21,862	22,524	21,280
New Hampshire	33,841	2,200	3,078	2,362	3,909	4,582	4,147	2,854
New Jersey	326,982	20,898	19,267	27,406	29,728	40,967	40,703	31,226
New Mexico	81,274	6,201	5,138	6,901	7,003	8,281	8,917	7,423
New York	472,427	33,317	27,930	32,031	44,875	64,632	59,387	43,633
North Carolina	293,272	21,671	23,750	18,534	24,168	30,193	29,125	23,830
North Dakota	11,320	336	1,237	1,809	909	1,397	1,506	1,347
Ohio	212,528	15,804	15,769	14,351	18,196	22,905	22,526	17,446
Oklahoma	276,964	16,688	21,300	18,832	26,003	29,834	33,906	31,636
Oregon	107,003	12,372	7,806	7,778	13,161	14,200	10,409	7,931
Pennsylvania	501,116	38,578	39,356	39,539	47,232	57,182	56,797	46,717
Rhode Island	46,907	2,828	2,904	2,955	4,459	5,705	5,947	4,743
South Carolina	133,646	7,162	13,842	10,979	13,967	14,823	15,823	12,181
South Dakota	7,410	252	607	499	546	871	849	739
Tennessee	87,692	7,932	3,689	6,424	8,880	10,416	10,110	9,258
Texas	1,534,063	89,011	94,746	111,464	144,410	174,678	170,485	151,466
Utah	59,684	4,438	3,529	4,025	4,590	6,195	6,592	6,303
Vermont	14	2	2	2	3	3	1	--
Virginia	294,524	20,971	20,924	18,088	28,121	38,312	36,894	29,260
Washington	81,728	7,547	4,450	4,641	10,306	12,263	9,406	5,834
West Virginia	10,167	131	361	1,632	1,134	680	672	1,298
Wisconsin	119,613	6,898	6,597	5,109	7,893	14,518	13,658	11,634
Wyoming	1,514	148	106	45	62	190	205	169
Total	9,985,270	670,787	662,046	743,796	915,286	1,151,236	1,139,968	970,308

See footnotes at end of table.

Table 17. Natural gas deliveries to electric power^a consumers, by state, 2016-2018
(million cubic feet) – continued

State	2016				
	May	April	March	February	January
Alabama	33,044	26,247	30,787	29,302	33,919
Alaska	2,405	2,436	2,387	2,331	2,712
Arizona	20,255	18,638	14,142	12,559	15,254
Arkansas	12,107	10,434	12,695	5,866	8,629
California	39,062	36,115	38,154	48,599	60,932
Colorado	8,004	8,790	7,415	6,405	7,868
Connecticut	10,245	11,368	8,897	9,694	10,479
Delaware	3,847	4,522	3,849	2,510	2,250
District of Columbia	*	*	*	*	*
Florida	107,010	99,955	90,865	79,445	86,725
Georgia	33,281	30,539	29,414	25,673	28,632
Hawaii	--	--	--	--	--
Idaho	1,346	530	1,736	2,392	2,887
Illinois	9,544	9,543	12,168	8,962	8,337
Indiana	15,092	10,314	15,464	13,185	15,082
Iowa	2,492	698	1,464	1,471	1,634
Kansas	1,825	1,051	933	566	720
Kentucky	4,952	4,470	6,024	3,725	5,411
Louisiana	30,749	25,535	27,234	24,798	27,974
Maine	1,917	1,408	606	1,897	2,451
Maryland	3,951	3,600	4,267	2,274	1,197
Massachusetts	15,038	11,333	10,265	9,526	9,082
Michigan	22,513	22,958	18,925	16,849	16,416
Minnesota	6,106	5,804	5,186	5,206	5,400
Mississippi	31,812	22,463	26,478	29,753	30,858
Missouri	4,069	5,178	2,591	2,759	2,479
Montana	434	402	361	341	416
Nebraska	257	389	150	103	88
Nevada	17,080	14,884	15,431	14,835	17,928
New Hampshire	3,009	3,609	749	1,145	2,196
New Jersey	24,677	24,493	24,328	20,351	22,939
New Mexico	6,235	6,183	6,245	5,938	6,811
New York	39,014	33,122	31,526	29,327	33,634
North Carolina	21,849	24,029	28,073	24,788	23,262
North Dakota	662	178	664	840	435
Ohio	11,314	16,532	18,262	19,433	19,989
Oklahoma	22,917	20,280	17,695	16,177	21,696
Oregon	3,311	3,049	7,267	9,347	10,372
Pennsylvania	35,525	32,992	36,829	33,779	36,590
Rhode Island	4,988	2,924	4,488	2,528	2,438
South Carolina	10,114	6,711	10,113	8,074	9,858
South Dakota	558	642	629	674	545
Tennessee	6,236	5,148	6,916	6,326	6,356
Texas	132,444	117,564	119,813	105,227	122,753
Utah	5,222	5,155	4,493	4,249	4,892
Vermont	2	*	1	--	*
Virginia	21,823	13,517	20,405	22,925	23,283
Washington	4,514	2,305	3,785	7,033	9,645
West Virginia	1,658	1,098	1,077	222	204
Wisconsin	9,701	9,626	13,359	10,355	10,265
Wyoming	223	135	161	37	32
Total	804,431	718,893	744,765	689,800	773,954

^a The electric power sector comprises electricity-only (utilities and independent power producers) and combined-heat-and-power plants within the NAICS 22 sector, whose primary business is to sell electricity, or electricity and heat, to the public.

^b Revised data.

-- Not applicable.

* Volume is less than 500 Mcf.

^w Withheld.

Notes: Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.

Source: U.S. Energy Information Administration (EIA): Form EIA-923, "Power Plant Operations Report."

Table 18. Natural gas deliveries to all consumers, by state, 2016-2018

(million cubic feet)

State	2018	2017	2016	2018				
	8-Month YTD	8-Month YTD	8-Month YTD	August	July	June	May	April
Alabama	463,558	417,921	445,668	61,202	63,193	57,003	58,597	54,592
Alaska	47,555	42,134	40,754	5,567	5,339	4,217	4,231	5,165
Arizona	NA	207,482	247,158	43,399	42,228	NA	NA	NA
Arkansas	NA	204,148	205,235	27,117	27,042	25,340	25,353	28,688
California	NA	1,337,837	1,377,812	NA	188,258	144,409	139,102	145,276
Colorado	NA	229,275	238,045	22,683	24,266	NA	NA	NA
Connecticut	176,915	153,060	163,403	20,259	19,539	16,938	14,915	21,438
Delaware	NA	67,302	73,011	7,875	NA	NA	NA	NA
District of Columbia	NA	18,788	18,895	1,213	1,077	1,158	1,084	2,212
Florida	NA	927,436	944,251	143,973	143,114	NA	119,934	112,873
Georgia	484,110	451,723	486,457	58,913	61,608	55,047	53,627	48,663
Hawaii	NA	2,089	1,993	281	277	270	266	276
Idaho	62,770	65,649	63,694	6,521	6,788	5,510	5,089	6,724
Illinois	728,544	619,206	664,855	55,980	56,141	48,732	55,347	97,499
Indiana	NA	465,377	500,793	54,640	57,518	53,064	58,722	69,062
Iowa	281,670	244,807	209,533	29,017	28,712	26,520	28,156	37,050
Kansas	181,203	155,083	155,184	17,067	18,661	17,245	18,663	22,644
Kentucky	213,892	176,399	175,594	21,141	20,796	17,893	20,921	24,607
Louisiana	NA	935,672	978,346	128,291	131,521	129,209	128,844	116,874
Maine	NA	31,670	36,964	NA	NA	3,097	2,998	3,501
Maryland	NA	136,267	147,662	18,332	17,698	14,955	NA	NA
Massachusetts	NA	295,785	287,946	28,320	26,297	20,343	20,628	35,886
Michigan	NA	538,841	587,307	47,725	45,757	42,205	54,124	90,677
Minnesota	NA	288,629	302,028	24,498	25,255	22,349	NA	44,304
Mississippi	382,258	341,729	359,058	51,712	51,099	45,582	46,694	44,187
Missouri	209,238	160,632	174,795	16,026	15,993	14,713	15,980	24,566
Montana	NA	44,186	40,977	3,916	3,733	3,698	4,326	6,221
Nebraska	112,878	103,940	102,447	9,228	10,897	9,319	11,054	14,668
Nevada	200,161	196,768	205,637	28,731	30,255	24,533	20,196	20,387
New Hampshire	NA	34,551	38,106	5,227	5,231	4,167	2,155	3,082
New Jersey	NA	468,129	519,802	48,037	48,643	39,460	NA	NA
New Mexico	NA	95,794	103,151	NA	13,807	12,997	NA	NA
New York	NA	819,637	869,926	86,731	84,055	NA	70,873	111,189
North Carolina	NA	325,056	355,369	46,922	49,951	42,744	37,509	39,795
North Dakota	NA	43,040	40,060	4,281	4,244	3,961	NA	6,553
Ohio	691,955	565,773	603,989	59,322	58,009	54,286	55,593	92,247
Oklahoma	430,206	350,132	381,881	55,912	59,351	53,754	54,904	47,925
Oregon	NA	137,678	142,726	20,733	20,127	12,424	10,408	16,963
Pennsylvania	788,003	662,213	712,771	88,137	83,815	73,067	66,835	95,014
Rhode Island	60,740	52,468	57,655	7,199	6,851	5,803	5,440	7,517
South Carolina	NA	178,919	179,992	32,577	30,722	26,818	22,337	21,417
South Dakota	NA	48,969	48,973	5,190	5,241	4,756	NA	NA
Tennessee	NA	204,102	214,070	25,827	25,661	23,842	21,920	29,338
Texas	NA	2,279,287	2,414,534	351,562	368,982	317,005	315,404	274,804
Utah	NA	122,073	133,236	13,911	14,667	11,266	NA	14,135
Vermont	8,580	7,650	7,812	593	586	617	612	1,235
Virginia	NA	374,637	363,509	49,793	51,012	NA	40,911	39,433
Washington	NA	194,161	182,370	21,654	22,220	16,636	15,068	22,452
West Virginia	NA	58,862	57,500	5,664	5,512	4,803	NA	8,400
Wisconsin	358,636	304,016	329,489	32,620	32,076	27,067	28,977	46,911
Wyoming	NA	54,310	51,079	5,647	5,540	5,000	NA	7,471
Total	18,196,293	16,241,288	17,043,501	2,098,687	2,129,751	1,852,937	1,845,763	2,133,909

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2016-2018

(million cubic feet) – continued

State	2018				2017			
	March	February	January	Total	December	November	October	September
Alabama	R54,530	R46,885	R67,556	633,536	58,705	52,507	51,120	53,284
Alaska	R7,405	R7,496	R8,135	67,102	7,777	7,037	5,747	4,408
Arizona	NA	NA	NA	308,987	25,781	19,193	27,065	29,466
Arkansas	R29,315	R30,321	NA	306,547	34,479	21,990	23,874	22,056
California	R192,850	R179,123	R195,397	2,048,294	209,200	167,614	168,017	165,626
Colorado	NA	NA	NA	355,187	47,843	32,413	25,884	19,771
Connecticut	R27,151	R25,234	R31,441	232,737	28,386	22,629	15,209	13,453
Delaware	NA	NA	NA	98,913	9,367	7,332	7,403	7,509
District of Columbia	3,801	3,548	NA	29,055	5,148	2,408	1,506	1,205
Florida	R109,650	R97,622	R110,621	1,376,529	104,113	98,545	121,395	125,040
Georgia	R63,136	R55,693	R87,423	689,147	77,578	57,534	51,820	50,492
Hawaii	273	261	NA	3,104	259	257	249	250
Idaho	R9,648	R10,709	R11,781	104,810	13,771	9,941	8,950	6,498
Illinois	R118,702	R130,933	R165,211	969,718	143,381	99,160	61,477	46,494
Indiana	R82,595	R81,420	NA	730,238	95,968	68,416	52,073	48,404
Iowa	R40,324	R42,377	R49,515	378,999	45,445	35,968	28,090	24,688
Kansas	R23,925	R28,852	R34,145	240,053	30,096	23,014	16,578	15,283
Kentucky	R32,219	R29,689	R46,628	274,656	35,789	26,722	18,529	17,218
Louisiana	R118,632	R116,493	NA	1,426,152	132,127	116,532	123,403	118,419
Maine	R4,665	R5,428	R4,888	48,461	5,531	4,388	3,422	3,450
Maryland	NA	NA	R35,173	215,283	33,267	22,801	10,808	12,139
Massachusetts	NA	R56,445	R62,458	441,202	60,043	37,900	24,547	22,926
Michigan	R112,839	NA	R134,291	848,731	124,966	86,103	55,775	43,045
Minnesota	R50,991	R59,746	R66,494	448,431	59,913	45,436	30,511	23,942
Mississippi	R42,545	R41,233	R59,207	511,522	49,854	39,515	38,668	41,755
Missouri	R32,362	R40,619	R48,979	253,061	39,768	25,416	14,056	13,189
Montana	NA	R9,727	R9,847	73,367	10,357	8,186	6,371	4,266
Nebraska	R16,427	R19,656	R21,629	158,234	18,969	15,090	11,290	8,945
Nevada	R24,697	R24,399	R26,963	291,219	27,143	21,494	23,082	22,731
New Hampshire	3,565	NA	5,279	51,997	5,492	4,498	3,048	4,408
New Jersey	NA	NA	NA	703,505	95,136	57,581	44,492	38,167
New Mexico	R15,822	R14,549	R17,377	144,797	17,116	11,383	10,681	9,823
New York	R142,379	R139,861	R175,519	1,230,272	162,415	110,597	69,247	68,377
North Carolina	R57,981	R45,925	NA	507,118	60,558	46,758	38,011	36,736
North Dakota	NA	R7,642	R8,048	66,201	8,187	6,406	5,102	3,466
Ohio	R115,822	R109,312	R147,363	900,058	132,665	94,369	57,973	49,278
Oklahoma	R45,227	R53,681	R59,453	524,660	55,594	39,415	38,710	40,809
Oregon	R25,247	NA	R25,832	226,396	30,130	21,657	20,801	16,130
Pennsylvania	R126,656	R112,475	R142,005	1,025,040	119,724	92,549	79,557	70,996
Rhode Island	R9,077	R8,538	R10,315	79,562	9,502	7,228	5,117	5,247
South Carolina	NA	R20,223	R31,695	274,328	26,832	24,073	22,960	21,544
South Dakota	NA	R8,641	R9,384	74,907	8,717	6,885	5,462	4,873
Tennessee	NA	R34,873	NA	318,011	42,617	28,586	22,009	20,697
Texas	R299,937	R293,407	NA	3,398,560	311,224	262,223	272,675	273,151
Utah	R22,143	R20,716	R24,554	189,225	28,155	16,769	12,314	9,914
Vermont	1,511	1,469	1,958	11,922	1,747	1,257	679	589
Virginia	R58,480	R54,795	NA	567,057	62,562	49,634	36,457	43,767
Washington	NA	R31,303	R33,569	309,587	39,647	30,537	26,383	18,860
West Virginia	R10,702	R9,659	R13,542	94,497	12,036	9,256	7,666	6,678
Wisconsin	R57,013	R62,515	R71,457	480,976	67,642	48,341	33,934	27,042
Wyoming	R8,437	R9,032	R8,901	82,336	9,258	7,329	6,419	5,019
Total	R2,554,737	R2,499,540	R3,080,967	24,824,284	2,841,983	2,152,873	1,846,618	1,741,521

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2016-2018

(million cubic feet) – continued

State	2017							
	August	July	June	May	April	March	February	January
Alabama	59,505	60,613	51,195	49,493	48,288	53,399	44,023	51,405
Alaska	4,540	4,327	3,327	3,611	4,538	7,108	6,317	8,365
Arizona	35,675	38,540	32,356	24,948	20,879	15,951	16,640	22,493
Arkansas	25,514	27,659	24,627	25,359	23,715	26,912	23,804	26,558
California	183,216	167,601	147,140	143,129	136,563	156,928	172,459	230,802
Colorado	21,291	22,248	19,040	23,360	27,374	30,709	34,486	50,767
Connecticut	16,036	16,071	13,297	13,235	16,255	25,424	23,889	28,853
Delaware	8,346	8,403	8,226	8,364	6,295	9,944	8,364	9,359
District of Columbia	1,206	1,222	1,278	1,622	1,795	3,717	3,377	4,569
Florida	141,640	138,404	123,194	124,599	108,787	107,284	88,431	95,097
Georgia	60,014	58,267	53,488	50,845	44,648	59,656	57,498	67,305
Hawaii	253	244	270	244	256	271	259	292
Idaho	6,001	6,188	5,120	5,844	7,245	8,952	10,682	15,617
Illinois	46,759	49,042	46,656	57,270	63,296	111,839	102,317	142,027
Indiana	47,049	48,033	43,858	45,350	51,729	75,599	67,304	86,454
Iowa	26,006	25,638	24,013	25,761	28,310	36,675	34,889	43,515
Kansas	16,853	18,430	15,666	14,480	17,271	21,421	20,858	30,105
Kentucky	18,816	20,641	18,255	18,179	19,348	27,395	23,571	30,194
Louisiana	125,642	124,012	118,370	116,680	112,748	116,954	103,637	117,629
Maine	3,547	3,824	3,341	3,238	3,684	4,957	4,181	4,898
Maryland	10,636	12,342	10,747	11,723	12,520	27,258	23,067	27,975
Massachusetts	26,633	26,242	25,133	28,267	34,077	55,593	46,521	53,319
Michigan	44,004	44,647	40,497	50,650	56,797	101,213	87,669	113,364
Minnesota	25,566	25,432	22,701	25,883	32,514	47,705	47,075	61,753
Mississippi	48,523	50,682	42,080	42,884	37,527	44,572	32,966	42,494
Missouri	13,132	13,900	12,764	13,817	15,304	26,265	25,902	39,548
Montana	3,691	3,465	3,012	3,474	4,993	6,781	8,018	10,754
Nebraska	9,294	10,884	8,778	10,291	11,592	15,168	16,189	21,745
Nevada	27,051	27,680	24,437	20,450	19,042	22,180	24,634	31,294
New Hampshire	4,550	3,942	3,606	3,307	5,476	5,007	3,976	4,686
New Jersey	39,526	45,873	43,761	44,096	48,294	87,199	70,997	88,382
New Mexico	10,924	12,343	11,255	10,071	9,536	11,134	12,867	17,664
New York	75,654	77,970	72,097	72,823	84,599	151,049	131,130	154,315
North Carolina	39,646	39,801	35,827	34,837	31,908	48,901	42,892	51,243
North Dakota	4,132	4,094	4,021	4,312	5,157	6,839	6,262	8,224
Ohio	50,545	49,665	46,100	53,118	56,698	101,096	91,837	116,713
Oklahoma	48,168	53,129	43,774	39,046	39,049	39,004	37,127	50,835
Oregon	17,619	15,743	10,063	10,610	13,365	16,941	21,366	31,971
Pennsylvania	71,103	74,476	64,582	61,436	65,571	108,014	99,298	117,733
Rhode Island	5,595	5,810	5,246	5,296	5,843	8,722	7,452	8,504
South Carolina	22,667	23,128	20,932	22,433	21,094	23,847	21,206	23,613
South Dakota	5,036	5,157	4,622	4,985	5,596	7,217	7,095	9,262
Tennessee	21,479	22,182	21,100	18,960	22,038	33,006	29,179	36,157
Texas	323,018	336,221	298,771	263,747	251,777	264,981	246,261	294,512
Utah	11,811	11,244	10,765	10,643	13,851	14,753	18,550	30,457
Vermont	561	533	485	679	854	1,562	1,382	1,594
Virginia	47,691	49,173	46,203	37,565	35,360	54,617	48,190	55,838
Washington	20,319	18,381	14,295	17,118	22,439	28,292	30,950	42,367
West Virginia	5,900	5,824	5,398	5,408	5,995	10,234	9,036	11,068
Wisconsin	28,987	29,148	23,918	27,096	32,142	52,868	47,205	62,651
Wyoming	5,033	4,887	4,995	6,172	6,748	8,207	8,329	9,939
Total	1,916,404	1,943,403	1,734,683	1,716,805	1,750,781	2,331,317	2,151,615	2,696,281

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2016-2018

(million cubic feet) – continued

State	2016							
	Total	December	November	October	September	August	July	June
Alabama	657,442	56,229	50,142	49,098	56,306	59,650	60,786	56,417
Alaska	66,244	8,236	7,263	5,708	4,284	3,624	3,704	3,778
Arizona	346,864	20,711	19,219	26,285	33,491	40,604	41,072	36,228
Arkansas	296,175	27,817	24,243	19,818	19,062	26,445	25,793	26,965
California	2,108,402	217,558	173,278	168,407	171,347	189,633	175,135	162,945
Colorado	354,036	48,093	29,725	21,022	17,151	19,706	21,082	20,175
Connecticut	243,618	27,095	21,341	16,616	15,162	17,471	16,793	14,221
Delaware	107,613	8,466	8,114	9,243	8,778	10,504	11,006	9,088
District of Columbia	27,987	4,224	2,596	1,316	956	992	1,009	998
Florida	1,363,599	93,522	92,004	111,434	122,388	134,141	136,095	127,361
Georgia	699,777	66,524	51,394	46,157	49,244	59,034	60,677	57,356
Hawaii	3,038	268	258	252	267	256	246	242
Idaho	100,701	14,718	8,280	7,195	6,813	7,021	6,148	5,340
Illinois	999,944	147,431	80,793	59,457	47,408	52,694	56,561	46,464
Indiana	744,918	91,896	61,099	45,894	45,236	49,930	50,085	48,813
Iowa	321,194	42,159	28,057	22,457	18,988	21,383	20,404	19,145
Kansas	233,473	31,660	18,746	14,011	13,872	17,500	16,536	15,584
Kentucky	260,708	31,721	21,120	16,707	15,565	17,924	17,860	16,774
Louisiana	1,439,796	120,944	112,264	111,926	116,316	122,541	130,195	121,850
Maine	52,476	4,109	3,526	4,114	3,763	5,462	5,140	3,551
Maryland	211,579	25,895	15,327	11,489	11,207	16,145	15,594	9,865
Massachusetts	419,448	50,315	32,838	25,040	23,309	30,155	30,228	26,479
Michigan	867,959	112,515	72,547	53,571	42,019	51,921	46,709	43,592
Minnesota	438,374	55,355	34,989	26,289	19,712	27,604	25,641	23,830
Mississippi	521,540	44,433	34,246	37,292	46,512	48,853	50,639	47,771
Missouri	260,601	39,957	19,699	13,079	13,071	14,742	15,409	15,792
Montana	67,011	10,110	6,799	5,218	3,906	3,423	3,441	3,357
Nebraska	156,916	20,390	13,702	10,815	9,561	11,694	11,084	10,429
Nevada	300,323	28,689	22,879	21,065	22,053	26,392	27,115	26,162
New Hampshire	57,765	5,711	5,400	3,620	4,928	5,509	5,079	3,846
New Jersey	756,833	86,360	54,218	49,463	46,989	58,902	60,273	50,907
New Mexico	155,021	17,608	12,939	10,978	10,345	11,326	12,026	10,853
New York	1,272,140	148,559	100,694	77,822	75,139	96,419	90,974	77,027
North Carolina	519,409	51,703	44,312	32,259	35,766	42,421	40,519	35,323
North Dakota	64,421	7,434	6,154	6,428	4,345	3,885	4,147	4,606
Ohio	897,048	113,779	77,338	54,740	47,202	51,579	50,136	46,205
Oklahoma	558,828	53,019	43,616	37,475	42,837	48,385	52,402	50,340
Oregon	231,055	31,942	19,098	17,451	19,838	19,872	16,533	14,403
Pennsylvania	1,072,102	121,330	92,607	74,230	71,165	82,039	80,239	71,414
Rhode Island	83,432	8,477	6,361	5,136	5,803	6,779	7,004	5,963
South Carolina	273,172	23,350	26,745	20,463	22,621	23,515	24,182	20,952
South Dakota	74,082	8,839	6,425	5,174	4,671	5,041	4,746	4,658
Tennessee	319,675	40,547	23,353	20,393	21,312	22,962	22,376	21,878
Texas	3,527,335	292,696	257,158	266,076	296,870	333,459	328,972	298,407
Utah	201,551	28,096	17,339	12,131	10,750	11,357	12,399	11,910
Vermont	11,959	1,619	1,102	831	596	575	584	574
Virginia	528,331	50,358	42,442	31,929	40,093	49,929	48,466	41,696
Washington	289,453	40,216	23,838	21,200	21,829	22,237	19,605	16,373
West Virginia	88,389	10,786	8,027	6,870	5,206	4,599	4,818	5,078
Wisconsin	478,626	61,918	36,869	26,981	23,371	29,775	28,226	27,199
Wyoming	79,775	10,003	7,434	6,274	4,986	5,223	5,143	4,940
Total	25,212,159	2,665,391	1,979,957	1,748,897	1,774,412	2,023,229	2,001,036	1,825,125

See footnotes at end of table.

Table 18. Natural gas deliveries to all consumers, by state, 2016-2018

(million cubic feet) – continued

State	2016				
	May	April	March	February	January
Alabama	52,165	45,414	52,232	54,608	64,396
Alaska	4,356	5,063	6,175	6,395	7,660
Arizona	26,217	25,567	22,214	24,125	31,130
Arkansas	22,950	22,188	27,261	24,062	29,571
California	145,157	144,618	162,754	174,197	223,373
Colorado	23,832	30,476	35,560	38,671	48,543
Connecticut	17,080	21,107	21,405	26,671	28,655
Delaware	7,617	8,678	8,680	8,433	9,006
District of Columbia	1,447	2,073	2,459	4,775	5,141
Florida	121,474	115,483	107,347	96,617	105,732
Georgia	53,101	52,685	56,885	67,243	79,477
Hawaii	239	258	250	246	257
Idaho	5,578	5,351	9,231	11,131	13,896
Illinois	54,860	76,116	98,353	128,247	151,561
Indiana	54,324	56,286	67,425	80,093	93,837
Iowa	21,192	22,888	28,997	34,683	40,842
Kansas	15,211	15,151	19,384	24,431	31,387
Kentucky	17,148	18,359	24,222	28,590	34,717
Louisiana	122,287	115,313	120,300	115,837	130,023
Maine	4,094	4,055	3,754	5,004	5,905
Maryland	12,680	15,811	19,870	26,982	30,715
Massachusetts	29,521	34,459	39,498	47,175	50,432
Michigan	55,178	79,238	87,032	107,023	116,614
Minnesota	27,447	36,311	43,567	54,432	63,197
Mississippi	43,599	34,078	38,750	45,385	49,982
Missouri	14,576	18,313	22,035	32,878	41,049
Montana	4,164	4,611	6,290	6,873	8,819
Nebraska	9,689	11,125	12,952	15,961	19,513
Nevada	22,893	21,472	23,474	25,494	32,635
New Hampshire	4,373	5,666	3,329	4,399	5,905
New Jersey	48,812	58,705	67,513	80,050	94,640
New Mexico	10,336	11,162	13,229	15,175	19,043
New York	83,430	100,622	115,411	143,852	162,191
North Carolina	34,844	39,726	46,701	55,682	60,153
North Dakota	4,269	4,057	5,593	6,242	7,260
Ohio	49,902	72,736	85,031	114,458	133,943
Oklahoma	44,161	41,277	42,213	44,300	58,803
Oregon	10,777	11,726	19,837	22,433	27,145
Pennsylvania	67,464	78,262	91,864	112,995	128,493
Rhode Island	6,982	6,136	8,439	7,873	8,480
South Carolina	19,683	17,373	21,786	24,033	28,467
South Dakota	5,043	6,080	6,770	7,766	8,869
Tennessee	19,804	20,683	26,746	36,150	43,470
Texas	279,180	269,291	289,057	285,885	330,283
Utah	13,340	15,995	18,125	22,264	27,844
Vermont	663	1,073	1,122	1,490	1,730
Virginia	35,152	31,321	42,386	53,844	60,715
Washington	16,340	15,916	24,887	29,006	38,006
West Virginia	5,695	6,828	8,539	10,025	11,918
Wisconsin	29,547	40,041	50,110	57,895	66,696
Wyoming	6,012	6,277	7,422	7,467	8,596
Total	1,785,885	1,903,501	2,164,467	2,459,545	2,880,714

^a Small volumes of natural gas representing onsystem sales to industrial consumers in Idaho are included in the annual total but not in monthly components.

^R Revised data.

^{NA} Not available.

Notes: Geographic coverage is the 50 states and the District of Columbia. See Appendix A, Explanatory Note 6, for discussion of computations and revision policy.

Source: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 19. Average citygate price, by state, 2016-2018
(dollars per thousand cubic feet)

State	2018	2017	2016	2018				
	8-Month YTD	8-Month YTD	8-Month YTD	August	July	June	May	April
Alabama	NA	3.94	3.23	3.70	3.81	3.93	3.81	3.57
Alaska	7.62	7.15	6.60	6.34	6.39	6.43	7.02	6.76
Arizona	NA	4.35	3.83	NA	3.04	3.23	2.88	3.01
Arkansas	4.31	4.89	4.23	5.81	6.20	5.85	5.66	4.47
California	NA	3.50	2.66	NA	NA	2.67	2.34	2.42
Colorado	3.44	3.97	3.34	4.40	4.09	4.04	3.51	3.04
Connecticut	NA	4.69	3.52	NA	NA	7.94	7.10	4.72
Delaware	NA	5.62	4.92	10.35	NA	9.50	8.13	5.40
District of Columbia	--	--	--	--	--	--	--	--
Florida	NA	5.67	3.74	7.00	7.21	6.48	6.76	NA
Georgia	3.79	4.25	3.45	3.74	3.99	3.87	3.79	3.59
Hawaii	19.97	16.29	13.60	18.48	20.03	20.87	22.70	21.03
Idaho	NA	3.07	3.21	2.15	2.07	NA	2.39	NA
Illinois	3.57	3.87	3.19	4.27	3.43	3.46	4.16	3.33
Indiana	3.82	3.99	3.41	4.83	4.67	4.57	4.35	3.25
Iowa	3.90	4.29	3.60	4.47	3.77	4.00	3.93	3.44
Kansas	4.04	4.64	3.83	5.44	5.05	5.60	5.82	3.64
Kentucky	3.81	4.02	3.19	3.51	3.48	3.47	3.86	3.64
Louisiana	NA	4.06	3.42	NA	3.79	3.64	3.70	3.72
Maine	7.93	6.43	6.74	7.06	6.92	6.51	6.09	5.39
Maryland	4.72	4.90	4.06	6.41	7.16	6.26	6.61	4.59
Massachusetts	NA	5.21	4.29	NA	10.96	9.51	6.47	5.35
Michigan	3.36	3.63	3.57	3.12	3.15	3.14	3.27	3.05
Minnesota	NA	4.08	3.51	NA	3.65	4.31	3.16	3.12
Mississippi	3.99	4.47	3.48	3.45	3.76	3.84	3.86	3.72
Missouri	4.22	4.85	4.05	7.20	7.02	6.61	6.36	3.93
Montana	NA	3.48	3.04	3.13	2.70	2.86	NA	2.94
Nebraska	3.87	4.30	3.71	4.53	4.26	4.24	3.92	3.10
Nevada	3.45	4.35	3.51	3.01	3.40	3.48	3.08	3.34
New Hampshire	NA	5.68	5.53	9.77	9.35	NA	6.11	4.38
New Jersey	4.60	4.45	3.88	4.96	4.12	4.65	4.15	4.29
New Mexico	NA	3.67	2.76	NA	2.93	3.00	2.45	2.41
New York	4.59	4.26	3.40	8.49	8.04	7.08	6.08	3.56
North Carolina	3.85	4.19	3.26	5.75	6.07	5.78	5.20	3.87
North Dakota	NA	4.28	3.59	NA	3.20	NA	NA	2.88
Ohio	NA	3.91	3.18	2.86	NA	NA	NA	3.45
Oklahoma	3.71	4.64	3.83	4.41	5.02	4.52	3.90	3.44
Oregon	3.90	4.00	4.16	5.53	5.85	4.74	4.88	3.54
Pennsylvania	NA	4.43	3.58	NA	6.28	5.98	6.13	3.74
Rhode Island	2.31	2.22	2.19	2.41	2.39	2.35	2.35	2.33
South Carolina	4.14	4.25	3.44	4.09	4.13	4.16	4.20	4.21
South Dakota	NA	4.17	3.38	4.68	4.09	NA	NA	2.91
Tennessee	3.96	4.18	3.20	3.86	4.13	3.97	3.83	3.58
Texas	NA	4.71	3.67	4.75	4.74	4.71	4.54	NA
Utah	NA	5.24	5.22	3.29	NA	3.86	4.64	5.52
Vermont	4.69	5.15	5.37	4.07	3.97	3.77	3.86	4.61
Virginia	NA	4.69	3.91	6.37	6.09	5.95	5.68	4.60
Washington	3.21	3.68	3.49	3.36	3.64	3.66	3.29	3.00
West Virginia	NA	3.96	3.43	5.72	NA	5.01	4.12	3.47
Wisconsin	4.05	4.32	3.66	4.55	4.41	4.62	4.04	3.44
Wyoming	3.69	3.97	3.40	3.39	3.20	2.93	3.05	3.64
Total	4.07	4.23	3.54	4.88	4.68	4.46	4.13	3.64

See footnotes at end of table.

Table 19. Average citygate price, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2018				2017			
	March	February	January	Total	December	November	October	September
Alabama	3.48	NA	3.37	3.80	3.42	3.62	3.77	3.67
Alaska	8.00	8.25	8.24	7.03	6.94	7.02	6.59	6.29
Arizona	4.18	4.25	4.49	4.36	4.36	5.06	3.87	3.93
Arkansas	4.03	3.98	3.85	4.70	3.79	4.56	5.40	6.30
California	2.76	3.12	2.91	3.45	3.66	3.24	2.95	3.09
Colorado	3.31	3.40	3.38	3.90	3.44	3.88	3.96	5.10
Connecticut	4.10	5.04	4.85	4.44	3.70	3.71	4.22	5.66
Delaware	4.34	4.52	5.18	5.60	4.46	5.19	8.31	10.40
District of Columbia	--	--	--	--	--	--	--	--
Florida	6.47	7.85	5.65	5.77	5.60	6.41	6.32	5.62
Georgia	3.62	4.56	3.48	4.15	3.91	3.80	4.08	4.23
Hawaii	19.73	18.34	18.74	16.62	17.11	18.23	16.69	17.18
Idaho	2.87	2.85	2.67	2.90	2.72	2.90	2.24	2.27
Illinois	3.30	3.35	3.91	3.76	3.59	3.55	3.46	4.20
Indiana	3.61	3.79	3.97	3.85	3.55	3.71	3.68	4.34
Iowa	3.61	4.13	4.06	4.30	4.96	3.90	3.71	3.83
Kansas	3.84	3.72	3.71	4.51	3.83	4.24	5.08	6.26
Kentucky	3.89	4.08	3.77	3.92	3.74	3.84	3.66	3.70
Louisiana	3.94	4.30	4.17	4.02	4.06	3.92	3.91	3.84
Maine	6.40	8.95	10.35	6.50	7.90	4.99	6.17	5.66
Maryland	3.90	4.55	4.64	4.73	4.10	4.27	5.36	6.79
Massachusetts	4.69	3.59	9.36	5.28	5.24	4.60	6.28	8.86
Michigan	3.32	3.69	3.38	3.57	3.56	3.47	3.35	3.10
Minnesota	3.62	3.92	3.74	4.24	5.61	3.72	3.46	3.17
Mississippi	3.92	4.48	4.02	4.39	4.03	4.55	4.45	4.49
Missouri	3.71	3.90	3.72	4.63	3.73	4.11	5.02	7.09
Montana	NA	3.29	3.39	3.28	3.20	3.22	2.47	2.35
Nebraska	3.74	3.96	4.04	4.31	4.74	3.95	3.71	4.63
Nevada	3.20	3.63	3.76	4.13	3.47	4.18	3.73	4.01
New Hampshire	5.01	7.91	9.96	5.86	6.87	4.82	5.29	8.23
New Jersey	4.34	4.55	5.05	4.27	4.08	3.93	3.60	3.71
New Mexico	3.08	3.32	3.17	3.51	3.15	3.41	3.22	3.41
New York	3.19	3.41	5.75	4.29	3.90	4.17	5.11	7.08
North Carolina	3.26	3.88	3.46	3.92	3.02	3.54	4.42	5.09
North Dakota	NA	4.15	4.24	4.28	4.36	4.17	4.23	4.38
Ohio	3.56	NA	3.66	3.96	4.22	3.89	3.57	4.13
Oklahoma	3.60	3.69	3.61	4.52	3.96	4.51	4.84	6.16
Oregon	3.43	3.47	3.61	3.90	3.44	3.76	3.75	4.69
Pennsylvania	4.09	4.19	3.85	4.26	3.64	4.00	4.47	6.06
Rhode Island	2.32	2.32	2.25	2.22	2.22	2.20	2.21	2.29
South Carolina	3.90	4.22	4.21	4.13	3.81	3.88	3.93	4.13
South Dakota	NA	4.17	3.91	4.39	5.60	4.11	3.80	4.42
Tennessee	3.81	4.18	4.08	4.09	3.88	3.98	4.00	4.20
Texas	5.29	5.42	5.39	4.80	4.94	5.32	4.96	4.47
Utah	5.54	6.35	5.77	5.30	5.76	5.78	4.95	3.85
Vermont	4.75	5.15	5.29	5.03	5.07	4.70	4.56	4.48
Virginia	3.62	NA	4.45	4.53	3.92	4.00	4.99	6.26
Washington	3.01	3.28	3.19	3.51	3.21	3.32	2.79	3.93
West Virginia	3.40	3.89	3.36	3.86	3.52	3.61	3.88	4.89
Wisconsin	3.75	4.36	4.04	4.24	3.90	4.25	4.21	4.59
Wyoming	3.84	4.01	3.86	3.92	3.83	4.01	3.82	3.45
Total	3.71	3.99	4.29	4.16	4.00	3.97	4.03	4.52

See footnotes at end of table.

Table 19. Average citygate price, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2017							
	August	July	June	May	April	March	February	January
Alabama	3.90	4.02	3.96	4.02	3.73	3.66	4.18	4.03
Alaska	5.83	5.76	5.69	6.02	6.96	7.42	7.54	7.99
Arizona	4.01	4.14	4.14	3.75	3.98	4.95	4.71	4.37
Arkansas	6.67	6.72	6.85	5.73	5.83	4.35	4.37	4.17
California	3.22	3.47	3.55	3.38	3.31	3.15	3.59	3.87
Colorado	4.65	5.09	4.68	3.98	3.66	3.65	3.91	3.92
Connecticut	5.79	6.08	6.58	5.85	4.97	3.53	4.45	4.45
Delaware	10.64	10.42	9.94	7.65	6.85	4.26	4.62	4.34
District of Columbia	--	--	--	--	--	--	--	--
Florida	5.09	5.77	5.16	5.24	6.21	5.70	5.96	6.09
Georgia	4.04	4.20	4.28	4.18	4.29	3.72	4.43	4.69
Hawaii	17.63	16.17	15.06	16.46	16.05	17.38	16.20	15.34
Idaho	2.41	2.47	3.29	3.04	2.71	3.31	3.14	3.17
Illinois	4.13	3.76	3.63	3.48	4.15	4.06	3.56	3.95
Indiana	4.74	4.97	4.87	4.28	4.25	3.72	3.89	3.81
Iowa	3.87	4.08	4.52	4.10	4.36	4.08	4.42	4.51
Kansas	5.72	5.39	6.61	5.86	4.81	3.99	4.18	4.24
Kentucky	3.41	3.59	3.73	4.05	4.46	3.83	4.19	4.16
Louisiana	3.85	3.99	4.37	4.08	3.94	3.96	4.37	3.91
Maine	6.09	7.67	5.46	5.00	5.30	5.54	7.58	7.36
Maryland	6.83	6.96	7.19	6.25	6.06	4.05	4.69	4.43
Massachusetts	9.24	9.61	9.04	6.38	5.46	4.06	4.53	4.66
Michigan	3.09	3.10	3.35	3.43	3.78	3.48	3.71	3.84
Minnesota	4.33	4.46	4.49	3.80	3.51	3.77	4.23	4.30
Mississippi	4.62	4.66	4.78	4.59	3.95	3.88	4.20	5.02
Missouri	7.68	7.26	7.15	5.86	5.15	4.07	4.45	4.21
Montana	3.41	2.90	3.30	3.61	3.47	3.54	3.56	3.46
Nebraska	4.45	4.17	5.07	4.20	4.02	3.87	4.71	4.30
Nevada	4.39	4.50	4.52	4.13	4.40	4.05	4.34	4.46
New Hampshire	7.41	8.42	5.39	5.50	4.64	4.37	6.07	6.59
New Jersey	4.37	4.61	4.73	4.56	4.26	4.32	4.48	4.52
New Mexico	3.60	3.59	3.61	3.43	3.31	3.35	3.82	3.93
New York	7.11	7.37	7.02	6.00	4.24	3.27	3.64	3.85
North Carolina	5.41	5.83	5.87	5.28	4.91	3.36	3.72	3.87
North Dakota	4.03	3.92	4.35	3.99	4.11	3.88	4.53	4.58
Ohio	3.93	3.89	3.82	3.80	3.87	3.64	4.08	4.09
Oklahoma	5.95	5.87	5.90	5.44	4.64	4.22	4.26	4.46
Oregon	5.97	5.71	5.08	4.56	3.90	3.59	3.59	3.69
Pennsylvania	6.36	6.69	6.67	5.36	4.85	3.86	4.20	4.07
Rhode Island	2.34	2.37	2.41	2.36	2.30	2.20	2.18	2.12
South Carolina	3.99	4.14	4.25	4.27	4.47	3.98	4.43	4.47
South Dakota	4.36	4.40	4.60	3.77	3.90	3.79	4.38	4.35
Tennessee	4.17	4.49	4.28	4.07	4.40	3.91	4.16	4.24
Texas	4.09	4.19	4.28	4.59	4.43	4.85	5.14	5.28
Utah	3.70	3.69	4.90	4.79	4.78	5.94	5.97	5.37
Vermont	4.44	4.31	4.74	4.69	5.26	4.98	5.69	5.67
Virginia	7.41	7.24	6.71	5.68	5.47	4.03	4.15	3.90
Washington	4.78	4.21	4.18	4.26	3.64	3.04	3.47	3.77
West Virginia	5.87	5.58	6.37	4.87	4.26	3.32	3.68	3.63
Wisconsin	4.55	4.76	5.24	4.24	4.08	3.82	4.39	4.46
Wyoming	3.82	3.98	3.79	3.24	3.71	3.89	4.23	4.27
Total	4.61	4.73	4.82	4.42	4.20	3.84	4.13	4.21

See footnotes at end of table.

Table 19. Average citygate price, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2016							
	Total	December	November	October	September	August	July	June
Alabama	3.44	3.78	3.85	4.20	3.89	3.89	3.89	3.34
Alaska	6.79	7.29	6.82	7.10	6.58	6.19	6.12	6.03
Arizona	4.07	4.74	4.91	4.09	3.92	3.86	4.05	3.31
Arkansas	4.29	3.83	4.37	6.02	5.69	6.22	6.68	6.16
California	2.96	3.64	3.30	3.51	3.56	3.29	3.34	2.52
Colorado	3.56	3.61	3.88	4.73	5.27	4.81	5.16	4.22
Connecticut	3.57	3.90	3.31	3.13	4.29	4.20	4.69	4.58
Delaware	4.91	4.28	4.17	6.15	8.20	8.50	8.77	8.53
District of Columbia	--	--	--	--	--	--	--	--
Florida	4.04	5.47	4.92	4.45	4.13	3.92	3.93	3.46
Georgia	3.67	4.08	4.04	4.26	4.30	4.01	4.32	3.44
Hawaii	13.81	14.75	12.93	15.07	14.06	13.33	13.54	17.26
Idaho	3.21	3.16	3.29	3.18	3.29	2.69	2.62	2.52
Illinois	3.38	3.63	3.38	4.25	5.19	4.66	4.25	3.72
Indiana	3.58	3.84	3.63	4.26	4.80	4.92	5.25	4.38
Iowa	3.77	4.04	4.14	4.18	4.47	3.91	3.94	3.67
Kansas	4.02	3.75	4.43	6.27	6.65	5.63	5.33	5.57
Kentucky	3.35	3.77	3.53	3.63	3.45	3.26	3.47	2.85
Louisiana	3.65	4.18	4.23	3.98	4.07	3.85	4.00	3.16
Maine	6.41	6.33	6.25	4.23	5.17	4.64	5.30	5.40
Maryland	4.18	3.96	4.20	5.42	7.54	7.65	8.57	7.14
Massachusetts	4.49	4.61	4.16	5.36	8.26	6.95	7.49	5.90
Michigan	3.57	3.54	3.65	3.53	3.35	3.08	3.19	2.76
Minnesota	3.71	4.05	4.17	3.71	4.38	4.28	3.88	3.49
Mississippi	3.78	4.77	4.14	4.17	3.90	3.79	4.04	3.46
Missouri	4.22	3.96	4.31	6.21	6.64	6.96	7.08	5.58
Montana	3.05	2.87	3.17	3.33	3.45	3.34	3.65	2.50
Nebraska	3.75	3.67	3.99	4.19	3.65	3.90	4.44	3.17
Nevada	3.73	4.18	3.70	4.10	4.45	4.76	4.50	3.74
New Hampshire	5.30	5.32	4.60	3.80	5.34	4.73	6.79	5.79
New Jersey	3.93	4.14	3.94	3.75	4.02	3.75	3.92	3.91
New Mexico	3.05	3.77	3.22	3.62	3.46	3.39	3.50	2.89
New York	3.57	3.85	3.42	3.61	6.30	6.85	6.58	5.65
North Carolina	3.44	3.72	3.33	4.43	4.76	4.83	5.28	4.38
North Dakota	3.88	4.10	4.64	4.51	4.52	4.18	4.36	2.83
Ohio	3.27	3.62	3.43	3.09	2.43	2.56	2.69	2.46
Oklahoma	3.98	4.04	4.00	5.03	5.29	5.39	5.51	4.77
Oregon	4.15	3.77	4.03	4.40	5.96	5.33	5.85	5.18
Pennsylvania	3.72	3.72	4.08	3.98	5.92	5.57	6.55	6.36
Rhode Island	2.12	1.99	1.96	1.96	2.01	2.03	2.06	2.05
South Carolina	3.64	4.44	3.66	4.01	3.94	3.75	3.87	3.43
South Dakota	3.65	3.92	4.25	4.20	4.73	4.82	4.47	3.06
Tennessee	3.42	3.73	3.90	4.26	3.99	3.64	3.88	3.19
Texas	4.09	5.36	5.10	4.93	4.16	4.00	3.94	3.41
Utah	5.15	5.35	5.00	4.82	3.86	3.24	3.37	3.58
Vermont	5.13	5.11	4.74	4.08	4.21	4.22	4.01	4.24
Virginia	3.99	3.68	3.87	5.37	6.50	7.04	6.25	6.42
Washington	3.66	3.58	4.14	4.20	4.85	4.35	4.56	3.57
West Virginia	3.46	3.30	3.45	3.73	5.14	5.08	5.59	4.62
Wisconsin	3.81	3.88	4.23	4.37	4.93	4.18	4.36	3.75
Wyoming	3.53	4.00	3.48	3.76	3.46	3.38	3.19	2.56
Total	3.71	3.96	3.90	4.19	4.60	4.33	4.42	3.84

See footnotes at end of table.

Table 19. Average citygate price, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2016				
	May	April	March	February	January
Alabama	2.99	2.90	3.00	3.18	3.22
Alaska	6.21	6.37	6.72	6.85	6.93
Arizona	2.77	3.03	4.85	4.60	3.64
Arkansas	4.79	4.60	4.53	3.76	3.43
California	2.49	2.25	2.30	2.65	2.72
Colorado	3.25	2.78	3.43	3.23	3.09
Connecticut	3.85	3.20	3.09	3.45	3.27
Delaware	6.24	5.03	4.70	3.84	3.81
District of Columbia	--	--	--	--	--
Florida	3.50	3.37	3.83	3.95	3.86
Georgia	3.37	3.19	3.21	3.25	3.35
Hawaii	16.20	14.19	13.19	10.52	10.93
Idaho	3.22	2.79	3.67	3.47	3.20
Illinois	3.10	3.39	3.33	2.79	3.12
Indiana	3.27	2.93	3.48	3.27	3.28
Iowa	3.01	3.46	3.70	3.57	3.61
Kansas	4.41	4.27	3.52	3.25	3.25
Kentucky	2.85	2.97	3.26	3.26	3.24
Louisiana	2.99	3.03	3.32	3.49	3.51
Maine	3.83	3.57	7.53	8.85	7.76
Maryland	4.57	3.89	4.34	3.52	3.30
Massachusetts	4.72	3.94	3.40	4.30	3.93
Michigan	2.87	2.91	3.90	3.84	3.80
Minnesota	2.98	2.94	3.77	3.65	3.43
Mississippi	3.19	3.36	3.18	3.85	3.28
Missouri	5.16	4.50	3.85	3.43	3.32
Montana	2.28	2.42	3.03	3.43	3.23
Nebraska	3.00	3.14	4.16	3.80	3.65
Nevada	3.19	3.16	3.18	3.56	3.38
New Hampshire	3.87	2.72	3.57	7.03	7.02
New Jersey	3.80	3.81	3.98	3.94	3.84
New Mexico	2.43	2.23	2.75	2.80	2.72
New York	4.26	3.03	2.84	2.92	2.62
North Carolina	3.71	3.21	3.10	2.87	2.98
North Dakota	2.71	2.97	3.65	3.84	3.76
Ohio	2.61	2.41	3.09	3.55	3.60
Oklahoma	3.83	3.73	3.58	3.69	3.62
Oregon	4.65	4.15	3.63	3.96	3.71
Pennsylvania	4.35	3.28	3.98	3.18	3.04
Rhode Island	2.09	2.14	2.22	2.24	2.23
South Carolina	3.08	3.37	3.41	3.27	3.42
South Dakota	2.28	2.47	3.40	3.49	3.65
Tennessee	3.01	2.97	3.11	3.14	3.21
Texas	3.20	3.20	3.60	3.87	3.79
Utah	4.60	4.63	6.06	6.05	5.61
Vermont	4.96	4.85	6.93	5.98	5.52
Virginia	4.38	3.92	3.72	3.31	3.40
Washington	3.85	3.43	3.12	3.63	3.21
West Virginia	3.41	3.18	3.26	3.38	3.13
Wisconsin	3.38	3.11	3.57	3.85	3.62
Wyoming	3.07	3.10	3.47	3.75	3.62
Total	3.44	3.22	3.49	3.48	3.39

^R Revised data.

-- Not applicable.

^{NA} Not available.

Notes: Geographic coverage is the 50 states and the District of Columbia. Prices in this table represent the average price of natural gas by state at the point where the gas is transferred from a pipeline to a local distribution company within the state. Prices are in nominal dollars. See Appendix A, Explanatory Note 8, for discussion of computations and revision policy.

Source: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 20. Average price of natural gas sold to residential consumers, by state, 2016-2018
(dollars per thousand cubic feet)

State	2018	2017	2016	2018				
	8-Month YTD	8-Month YTD	8-Month YTD	August	July	June	May	April
Alabama	15.03	15.81	13.26	21.90	21.93	21.00	17.27	15.07
Alaska	11.21	10.27	9.74	13.06	13.77	12.73	11.85	11.29
Arizona	NA	15.28	15.27	NA	22.69	21.27	19.20	16.78
Arkansas	11.79	12.74	10.55	21.64	21.08	19.74	14.02	11.47
California	NA	12.77	11.30	NA	12.36	12.14	12.42	11.60
Colorado	7.99	8.28	7.23	14.61	17.24	14.43	10.47	7.40
Connecticut	NA	13.95	12.63	23.72	22.33	19.93	NA	13.17
Delaware	NA	12.30	11.33	24.29	23.32	20.31	14.91	12.22
District of Columbia	11.50	12.45	10.55	19.11	18.51	14.51	12.42	10.79
Florida	20.98	20.65	19.28	27.70	26.56	24.53	23.12	20.48
Georgia	14.84	17.82	13.83	29.63	27.63	27.65	21.53	14.10
Hawaii	42.61	38.45	36.63	43.50	45.44	41.62	44.49	42.51
Idaho	NA	7.94	8.59	10.33	10.35	9.55	9.17	7.70
Illinois	8.20	9.31	7.59	19.09	18.98	15.17	12.61	7.57
Indiana	8.64	9.62	7.82	19.42	20.19	18.83	15.37	8.06
Iowa	8.57	8.89	7.69	18.83	19.70	15.09	10.94	7.89
Kansas	10.61	11.30	9.66	22.61	21.99	18.46	15.30	11.89
Kentucky	10.54	12.11	9.70	24.87	25.01	24.49	18.47	9.65
Louisiana	NA	13.08	10.67	17.41	16.97	15.97	13.37	12.33
Maine	NA	14.47	13.74	24.72	25.84	20.22	17.01	15.58
Maryland	11.49	13.00	11.03	21.01	19.57	18.38	14.33	10.31
Massachusetts	NA	13.25	12.11	16.41	15.59	14.55	NA	NA
Michigan	8.29	8.62	8.22	13.39	13.52	13.49	11.94	7.93
Minnesota	NA	8.61	7.94	14.97	15.40	12.97	NA	7.75
Mississippi	9.92	11.87	9.66	17.72	17.53	16.68	12.91	9.99
Missouri	10.04	11.32	10.37	24.89	24.11	22.21	13.57	9.69
Montana	NA	7.54	7.23	11.60	10.20	9.11	7.71	7.11
Nebraska	NA	8.81	7.66	17.81	NA	15.72	10.00	7.70
Nevada	9.42	8.46	10.65	14.46	13.86	12.72	11.55	9.92
New Hampshire	15.10	13.88	13.70	22.73	21.07	17.88	16.60	15.68
New Jersey	8.92	8.77	7.87	12.66	12.11	11.30	9.26	7.74
New Mexico	NA	9.07	7.56	NA	12.79	11.23	NA	7.94
New York	12.09	11.81	10.67	20.83	20.11	19.32	14.20	11.29
North Carolina	NA	13.98	10.89	NA	NA	NA	23.31	12.50
North Dakota	7.11	7.91	7.30	21.42	20.79	15.45	8.71	6.49
Ohio	8.94	9.93	8.46	27.80	26.49	25.45	14.97	8.10
Oklahoma	9.10	10.99	9.68	26.63	25.69	22.84	12.34	9.00
Oregon	11.09	10.62	12.47	16.88	15.10	14.21	13.66	11.10
Pennsylvania	11.32	11.24	9.96	20.44	19.76	17.96	14.14	10.80
Rhode Island	NA	13.58	13.53	NA	27.60	20.69	17.80	16.34
South Carolina	NA	15.40	12.09	26.56	29.36	NA	NA	13.49
South Dakota	NA	8.01	7.25	15.86	14.73	11.80	8.05	6.98
Tennessee	NA	10.33	8.62	NA	19.68	18.42	11.80	9.10
Texas	NA	13.02	10.70	NA	21.64	20.20	16.22	12.92
Utah	NA	8.93	9.05	10.44	10.24	10.26	9.44	NA
Vermont	13.25	13.72	13.85	23.26	21.61	18.72	14.02	12.31
Virginia	11.32	12.30	10.42	20.61	20.51	18.27	14.22	10.95
Washington	10.70	10.76	10.72	15.81	14.98	13.36	12.99	10.34
West Virginia	NA	9.28	9.26	18.80	18.19	17.75	NA	9.63
Wisconsin	7.98	8.54	7.99	14.53	14.06	12.39	10.22	6.93
Wyoming	8.68	9.04	8.42	17.53	16.18	13.11	9.63	8.51
Total	10.56	11.03	9.75	18.63	17.91	16.51	13.67	10.08

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2016-2018

(dollars per thousand cubic feet) – continued

State	2018				2017			
	March	February	January	Total	December	November	October	September
Alabama	15.29	14.15	13.38	16.11	14.72	16.97	22.17	22.63
Alaska	10.77	10.62	10.59	10.52	10.66	10.65	11.17	12.13
Arizona	14.22	13.97	13.76	15.78	14.43	17.54	20.10	22.25
Arkansas	12.06	10.82	10.08	12.97	11.81	12.80	19.52	20.36
California	12.26	12.09	12.11	12.49	11.76	11.41	12.10	12.28
Colorado	7.31	6.60	6.59	8.08	6.84	7.39	8.44	12.16
Connecticut	12.75	12.69	12.02	13.95	11.94	13.42	19.83	21.74
Delaware	11.64	11.84	NA	12.84	12.44	14.34	22.06	22.02
District of Columbia	11.32	11.32	10.31	12.53	10.47	13.14	18.88	19.33
Florida	20.07	18.77	18.08	21.15	19.69	22.42	24.92	24.47
Georgia	13.01	12.42	10.55	16.93	11.23	14.39	22.07	31.00
Hawaii	42.16	42.05	39.90	38.88	39.57	39.91	39.77	39.98
Idaho	7.08	NA	7.33	7.65	6.82	7.15	7.43	9.46
Illinois	7.25	6.91	6.66	8.83	6.81	7.47	10.49	16.81
Indiana	7.55	7.99	6.90	8.94	6.56	7.77	10.47	17.64
Iowa	8.11	7.84	7.35	9.30	8.52	9.68	13.37	18.63
Kansas	10.04	8.89	8.69	10.95	9.02	8.98	14.20	21.05
Kentucky	9.21	9.68	8.53	11.62	9.03	10.65	14.80	22.54
Louisiana	NA	9.92	8.72	13.04	10.76	13.25	16.52	16.49
Maine	NA	16.46	14.65	14.61	13.59	14.14	18.92	23.14
Maryland	9.79	11.85	10.40	12.97	11.46	12.12	18.42	20.14
Massachusetts	NA	NA	NA	13.32	13.78	12.74	12.26	15.45
Michigan	7.60	7.74	7.41	8.38	7.30	7.66	9.50	12.19
Minnesota	NA	8.72	7.84	8.47	7.91	7.73	8.93	11.95
Mississippi	10.78	9.08	7.68	11.83	9.72	11.40	16.62	18.00
Missouri	9.42	8.56	8.11	11.78	9.87	12.26	22.34	25.33
Montana	NA	6.95	7.00	7.62	7.42	7.47	8.21	10.53
Nebraska	7.71	7.41	6.94	9.01	7.91	8.69	14.15	17.19
Nevada	8.24	8.15	8.12	8.82	8.26	9.97	11.06	12.81
New Hampshire	15.51	13.93	13.28	14.55	14.36	16.92	22.75	24.80
New Jersey	8.76	8.63	8.87	9.14	9.53	10.00	11.24	11.55
New Mexico	7.28	7.06	7.08	9.22	8.05	9.02	12.87	14.89
New York	12.10	11.23	9.51	12.04	10.52	13.07	17.16	18.12
North Carolina	10.40	13.44	9.72	13.29	10.70	11.93	19.66	22.88
North Dakota	6.09	5.95	5.85	7.64	6.05	6.47	9.09	15.60
Ohio	7.30	7.61	6.45	9.72	7.02	8.78	15.19	23.38
Oklahoma	7.97	7.37	6.72	11.40	8.65	11.14	24.54	26.70
Oregon	9.85	9.81	10.85	10.59	9.77	10.43	11.18	14.68
Pennsylvania	10.45	10.86	10.02	11.40	10.38	11.33	16.27	17.48
Rhode Island	14.83	13.45	13.13	14.02	14.01	15.34	19.30	19.93
South Carolina	10.57	15.91	NA	14.57	11.48	12.83	19.35	25.03
South Dakota	NA	6.89	6.86	8.18	7.55	7.66	11.01	14.40
Tennessee	9.03	8.74	7.89	10.31	8.66	10.32	16.00	17.18
Texas	11.17	9.61	8.84	13.61	11.91	14.66	20.64	21.76
Utah	NA	10.08	9.40	9.05	9.76	9.14	8.22	10.38
Vermont	12.93	11.80	12.37	14.12	13.22	15.43	19.84	21.13
Virginia	9.38	11.63	10.04	12.34	10.54	11.89	20.00	20.71
Washington	9.93	9.62	10.18	10.62	9.66	10.22	10.92	13.81
West Virginia	9.27	9.27	8.94	9.43	9.00	9.41	11.26	14.16
Wisconsin	7.33	7.65	7.38	8.40	7.51	7.87	9.12	13.59
Wyoming	7.88	7.49	7.67	9.01	7.97	8.45	9.55	15.05
Total	9.78	9.64	8.92	10.91	9.29	10.15	13.36	16.92

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2017							
	August	July	June	May	April	March	February	January
Alabama	22.97	22.15	21.14	20.57	16.19	14.51	14.69	13.50
Alaska	13.39	13.72	12.79	11.00	10.23	9.58	9.61	9.44
Arizona	23.41	22.74	20.48	18.19	16.82	15.32	12.66	12.70
Arkansas	21.39	20.16	18.25	15.66	14.02	12.52	11.81	10.40
California	12.53	12.55	13.14	12.96	12.51	12.41	12.65	13.10
Colorado	13.78	14.70	12.67	9.17	8.04	7.92	7.44	6.86
Connecticut	22.65	22.04	18.83	16.62	13.81	12.30	13.18	12.39
Delaware	24.65	22.84	18.85	16.02	12.07	11.34	11.04	10.65
District of Columbia	21.24	18.15	16.92	16.24	12.27	11.67	10.92	10.93
Florida	26.57	25.36	24.01	22.19	19.77	19.42	18.38	17.71
Georgia	32.32	32.42	29.52	27.26	18.21	13.69	13.57	11.84
Hawaii	40.28	39.99	37.63	39.21	38.06	38.69	37.91	36.66
Idaho	10.87	11.26	10.46	8.32	8.02	8.08	7.53	7.23
Illinois	17.86	16.90	15.32	11.11	10.22	7.95	8.39	7.58
Indiana	20.65	20.06	19.15	11.89	11.67	7.74	8.64	7.68
Iowa	17.36	17.65	14.96	10.83	8.95	7.71	7.98	7.62
Kansas	22.57	21.69	19.45	18.15	12.84	10.01	9.83	8.50
Kentucky	24.81	24.49	23.98	18.07	13.70	10.39	10.88	9.23
Louisiana	17.30	16.44	15.43	14.89	13.56	12.71	12.30	10.89
Maine	24.48	23.45	17.86	14.97	14.11	13.03	13.70	13.71
Maryland	21.61	20.23	18.91	16.53	14.62	10.86	12.26	11.35
Massachusetts	15.95	15.46	13.48	13.63	13.22	12.90	13.11	12.91
Michigan	13.79	14.46	13.24	9.89	9.22	7.77	7.98	7.59
Minnesota	13.40	13.36	12.48	9.69	8.44	7.63	8.06	8.05
Mississippi	18.07	17.37	16.11	15.02	12.82	10.64	10.67	10.02
Missouri	27.73	26.50	21.51	15.45	12.35	10.48	9.32	8.27
Montana	11.64	10.99	9.59	8.08	7.51	7.38	7.29	6.73
Nebraska	17.53	16.79	14.15	10.36	8.70	7.87	7.93	7.38
Nevada	14.10	13.23	11.62	10.63	8.99	7.76	7.10	6.96
New Hampshire	25.25	22.46	16.35	14.31	12.22	12.75	13.60	13.26
New Jersey	12.08	11.86	10.28	9.66	8.31	8.65	8.16	8.36
New Mexico	15.78	15.10	12.74	10.44	9.03	8.07	8.16	7.86
New York	19.05	19.13	16.28	14.45	11.10	10.81	11.04	9.86
North Carolina	23.14	22.49	23.15	19.75	17.86	11.65	13.82	11.72
North Dakota	20.47	21.82	19.59	13.01	7.59	6.46	6.79	5.93
Ohio	27.28	26.34	23.63	14.49	10.25	7.73	8.15	7.13
Oklahoma	29.06	25.92	21.84	15.91	13.17	10.28	8.78	7.13
Oregon	16.69	15.42	14.30	12.23	10.98	10.67	9.89	9.16
Pennsylvania	20.04	19.34	16.79	13.12	11.68	10.33	10.32	9.70
Rhode Island	20.19	19.15	16.38	15.11	13.18	12.79	12.72	12.58
South Carolina	26.44	24.68	24.33	21.98	17.13	11.79	15.05	13.40
South Dakota	14.62	14.52	12.01	9.06	7.73	7.46	7.80	6.89
Tennessee	19.34	18.74	16.89	14.15	10.96	9.62	9.29	8.55
Texas	23.39	20.93	18.54	17.09	15.59	12.25	10.61	9.56
Utah	11.21	10.88	9.56	8.35	9.15	9.18	8.78	8.40
Vermont	22.39	21.62	18.03	15.03	12.94	12.53	12.47	12.79
Virginia	22.04	20.79	18.59	17.62	13.56	10.54	11.78	9.99
Washington	16.05	15.38	14.64	12.02	10.66	10.24	10.04	9.75
West Virginia	17.51	18.81	14.75	11.56	9.55	8.47	8.39	8.19
Wisconsin	14.31	15.03	12.99	8.98	9.03	7.49	7.56	8.05
Wyoming	17.86	17.26	12.41	10.07	9.32	8.51	8.09	7.51
Total	18.22	17.86	16.06	13.26	11.34	9.86	10.01	9.32

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2016							
	Total	December	November	October	September	August	July	June
Alabama	14.06	14.29	19.11	21.24	21.16	21.29	20.59	19.33
Alaska	9.81	9.51	9.73	10.07	11.34	12.66	12.98	12.14
Arizona	15.28	12.70	15.69	18.72	20.81	22.42	21.61	19.59
Arkansas	11.17	10.66	17.46	18.13	18.76	18.56	16.74	15.32
California	11.84	13.08	12.33	13.31	13.26	12.82	11.90	11.31
Colorado	7.35	6.46	7.38	9.71	12.07	14.22	13.96	12.46
Connecticut	12.91	11.73	13.29	16.63	22.19	24.07	21.76	19.19
Delaware	11.88	11.38	13.77	19.82	22.52	24.25	21.38	17.57
District of Columbia	10.90	10.62	13.28	12.53	18.63	19.25	17.60	14.70
Florida	20.27	19.10	23.55	26.53	25.75	26.80	26.17	23.35
Georgia	14.56	11.95	16.05	24.53	26.14	25.14	25.12	23.85
Hawaii	36.48	37.57	34.17	37.56	35.43	34.94	34.84	42.65
Idaho	8.14	7.22	7.37	8.24	9.49	10.16	9.88	9.80
Illinois	7.88	6.74	8.71	12.16	16.72	17.33	16.49	12.62
Indiana	7.92	6.41	8.48	11.89	17.65	18.56	18.89	16.48
Iowa	8.13	6.93	10.22	14.77	16.31	17.64	16.05	13.28
Kansas	9.85	8.62	9.29	18.34	19.96	21.74	20.13	18.92
Kentucky	10.14	8.65	11.45	19.46	22.92	24.45	23.07	20.15
Louisiana	11.35	11.02	14.96	16.25	15.87	16.66	15.97	13.89
Maine	13.82	12.87	13.30	15.75	21.33	22.79	21.88	17.99
Maryland	11.53	10.84	13.22	17.39	20.27	20.97	19.83	15.79
Massachusetts	12.46	13.15	13.27	13.70	14.97	15.22	14.42	12.73
Michigan	8.21	7.35	7.98	9.38	12.85	14.65	13.50	13.02
Minnesota	8.01	7.31	7.98	9.51	13.20	13.37	13.50	11.71
Mississippi	10.06	8.86	13.44	15.87	15.19	15.99	15.67	13.92
Missouri	10.94	9.09	15.25	21.71	24.01	26.41	24.86	19.73
Montana	7.27	6.74	7.37	7.93	10.06	11.11	10.33	8.36
Nebraska	8.01	7.05	10.07	13.31	15.73	16.13	15.03	12.37
Nevada	10.23	7.57	9.70	11.49	13.81	14.42	14.63	12.99
New Hampshire	14.25	14.19	14.97	19.46	24.66	24.61	23.02	18.19
New Jersey	8.30	8.75	9.37	10.25	11.74	12.12	11.33	10.64
New Mexico	8.05	7.64	10.06	12.56	14.49	15.18	13.85	11.38
New York	10.84	9.60	10.95	14.87	17.34	17.86	16.64	14.69
North Carolina	11.31	10.61	11.89	18.54	21.70	21.26	22.51	19.62
North Dakota	7.21	5.68	6.96	8.49	16.28	20.06	20.50	19.20
Ohio	9.03	7.80	10.00	18.54	25.81	26.97	25.18	19.02
Oklahoma	10.57	8.37	18.86	24.82	26.09	28.99	24.71	19.80
Oregon	11.67	9.34	11.37	11.81	14.32	16.61	16.56	15.90
Pennsylvania	10.18	9.21	10.62	13.58	18.88	19.48	18.34	15.62
Rhode Island	13.80	13.03	14.27	17.92	20.26	20.37	19.20	16.89
South Carolina	12.62	11.62	13.55	22.15	25.25	25.55	26.86	24.09
South Dakota	7.60	6.73	9.58	10.46	13.36	14.15	13.48	11.34
Tennessee	9.21	8.77	12.18	17.97	17.59	18.88	17.11	14.81
Texas	11.73	10.83	18.72	20.34	21.23	22.98	19.53	16.70
Utah	9.12	8.99	9.91	9.23	10.12	10.76	10.67	9.81
Vermont	14.15	13.13	14.31	18.75	22.57	23.02	21.11	18.40
Virginia	10.88	10.16	12.69	16.02	20.91	20.99	19.60	15.27
Washington	10.78	10.06	11.05	11.53	13.92	16.14	15.24	13.58
West Virginia	9.26	8.22	8.92	11.65	16.69	18.41	17.03	15.58
Wisconsin	8.07	7.41	8.26	9.20	14.29	15.04	14.31	10.57
Wyoming	8.51	7.32	8.77	10.25	15.68	16.54	16.97	11.27
Total	10.05	9.06	10.77	13.74	16.78	17.60	16.56	14.43

See footnotes at end of table.

Table 20. Average price of natural gas sold to residential consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2016				
	May	April	March	February	January
Alabama	17.18	14.46	12.17	11.27	12.16
Alaska	10.41	9.63	9.09	8.99	8.87
Arizona	17.54	16.63	18.16	13.91	12.06
Arkansas	13.66	10.84	10.27	9.01	9.49
California	11.45	10.44	10.54	11.46	11.39
Colorado	7.06	6.84	6.68	6.45	6.07
Connecticut	15.04	12.88	11.74	10.67	10.34
Delaware	13.46	11.49	10.26	9.73	10.11
District of Columbia	12.03	10.10	10.27	9.12	9.53
Florida	21.72	20.29	17.88	15.31	16.52
Georgia	19.43	15.77	12.53	10.57	10.40
Hawaii	39.99	36.94	37.08	33.73	33.45
Idaho	9.21	8.94	8.79	8.23	8.00
Illinois	10.48	7.53	7.08	6.30	5.83
Indiana	10.09	7.76	8.07	6.41	6.02
Iowa	8.74	7.53	7.33	6.52	6.53
Kansas	13.42	11.08	9.43	7.89	7.27
Kentucky	14.84	10.32	8.75	7.61	7.85
Louisiana	13.16	11.12	10.32	8.54	9.25
Maine	13.46	12.56	12.97	13.07	13.19
Maryland	12.44	11.30	10.85	9.30	9.78
Massachusetts	12.35	11.91	11.60	11.97	11.88
Michigan	9.65	7.84	7.82	7.61	7.29
Minnesota	9.87	7.62	7.66	7.12	7.05
Mississippi	12.95	10.76	9.01	7.96	8.43
Missouri	15.60	11.32	9.32	8.13	7.99
Montana	7.19	6.77	7.02	6.90	6.81
Nebraska	9.25	7.63	7.02	6.52	6.45
Nevada	11.92	11.25	10.84	9.75	9.12
New Hampshire	13.97	12.22	11.76	12.70	14.05
New Jersey	9.37	8.86	8.12	6.79	6.48
New Mexico	8.73	7.48	7.06	6.44	6.35
New York	10.99	9.88	9.64	9.45	10.30
North Carolina	16.42	13.11	12.62	9.06	8.76
North Dakota	9.52	6.90	6.30	5.60	5.49
Ohio	11.57	7.94	7.07	6.37	6.41
Oklahoma	16.73	10.96	8.92	6.81	6.53
Oregon	15.29	13.81	12.08	11.97	10.36
Pennsylvania	11.38	9.91	9.51	8.64	8.75
Rhode Island	14.49	13.42	12.64	12.35	12.73
South Carolina	18.62	15.18	13.47	9.75	9.04
South Dakota	7.74	6.87	7.14	6.59	6.29
Tennessee	12.58	9.52	7.88	7.27	7.40
Texas	16.50	11.75	10.12	7.87	7.85
Utah	8.89	8.96	9.51	8.79	8.59
Vermont	14.26	13.30	12.66	12.53	13.24
Virginia	12.49	10.47	10.04	8.63	9.30
Washington	11.62	10.55	10.34	9.90	9.53
West Virginia	11.72	9.36	8.82	8.31	8.31
Wisconsin	8.63	7.57	7.39	7.25	7.46
Wyoming	8.49	8.24	7.61	7.62	7.33
Total	11.62	9.65	9.19	8.36	8.28

^R Revised data.

^{NA} Not available.

Notes: Geographic coverage is the 50 states and the District of Columbia. Average prices for gas delivered to residential consumers reflect onsystem sales prices, with the following exception: Residential price data are based on total gas deliveries in the states of Georgia, New York and Ohio only. Published prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges. Prices are in nominal dollars. See Appendix A, Explanatory Note 8, for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of total residential, total commercial, and total industrial deliveries.

Sources: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-910, "Monthly Natural Gas Marketer Survey."

Table 21. Average price of natural gas sold to commercial consumers, by state, 2016-2018
(dollars per thousand cubic feet)

State	2018	2017	2016	2018				
	8-Month YTD	8-Month YTD	8-Month YTD	August	July	June	May	April
Alabama	11.97	11.93	10.33	12.50	12.52	12.43	12.18	12.33
Alaska	10.14	9.59	8.06	10.84	11.43	10.84	10.51	10.16
Arizona	NA	8.81	9.07	NA	9.14	9.38	9.44	9.23
Arkansas	8.18	8.28	6.99	9.08	8.98	9.07	8.45	7.91
California	NA	9.04	7.94	NA	8.35	7.76	7.76	7.99
Colorado	NA	7.23	6.25	NA	10.74	8.98	8.34	6.38
Connecticut	9.05	9.43	8.75	10.73	11.07	11.37	11.38	8.58
Delaware	NA	10.14	9.27	13.66	NA	NA	11.25	10.22
District of Columbia	NA	10.95	9.72	10.62	10.65	9.20	10.16	10.24
Florida	NA	10.93	10.31	NA	11.54	11.69	11.52	11.44
Georgia	8.15	8.94	7.70	8.76	9.31	9.00	8.54	8.46
Hawaii	31.05	27.10	24.83	29.91	31.69	30.90	33.05	31.93
Idaho	NA	6.78	7.42	6.64	6.86	NA	6.89	6.47
Illinois	7.26	8.29	6.88	13.52	14.15	12.29	10.72	6.78
Indiana	7.42	8.10	6.46	10.68	11.68	10.71	11.07	7.01
Iowa	NA	6.86	5.78	8.76	8.98	7.92	7.06	6.16
Kansas	9.08	9.61	8.25	12.98	13.31	12.30	11.80	9.80
Kentucky	8.47	9.27	7.56	12.36	12.70	12.85	10.86	8.03
Louisiana	NA	9.06	7.68	8.15	8.39	8.50	8.37	8.56
Maine	NA	11.34	10.66	13.57	13.50	12.13	12.12	12.74
Maryland	9.33	10.31	8.60	10.63	9.90	11.28	10.32	8.97
Massachusetts	NA	10.11	9.32	10.31	NA	NA	NA	NA
Michigan	NA	7.16	6.86	9.10	NA	9.12	8.18	6.70
Minnesota	NA	6.97	6.41	8.46	8.51	7.94	NA	5.67
Mississippi	NA	8.86	7.68	8.19	8.45	8.23	8.55	8.07
Missouri	7.75	8.19	7.66	10.33	10.30	9.96	7.87	7.72
Montana	NA	7.36	7.08	9.31	9.03	8.49	7.43	6.94
Nebraska	6.24	6.41	5.32	6.82	6.50	6.40	5.66	5.87
Nevada	6.54	5.45	7.30	7.20	7.22	7.19	6.91	6.59
New Hampshire	12.66	11.37	10.97	16.76	16.42	13.77	13.76	13.50
New Jersey	NA	9.10	7.58	9.37	NA	9.12	8.34	7.33
New Mexico	NA	6.49	5.39	NA	6.71	NA	NA	5.46
New York	7.44	6.97	6.26	6.86	7.05	7.21	7.41	7.23
North Carolina	NA	9.21	7.47	NA	10.02	NA	9.44	8.49
North Dakota	NA	6.08	5.33	7.37	7.40	6.64	NA	5.41
Ohio	5.89	6.33	5.58	7.77	7.97	7.24	6.72	5.64
Oklahoma	NA	8.17	7.12	NA	14.52	11.82	8.52	7.23
Oregon	8.82	8.81	9.72	10.11	9.72	9.46	9.38	8.90
Pennsylvania	9.52	9.17	8.01	11.96	12.33	11.80	10.91	9.68
Rhode Island	12.63	10.95	10.98	18.98	18.44	16.76	14.43	13.64
South Carolina	NA	9.38	8.09	8.87	9.35	9.06	8.67	8.79
South Dakota	NA	6.16	5.44	7.84	7.60	6.55	NA	5.46
Tennessee	8.40	8.74	7.40	10.18	9.98	9.48	8.49	7.89
Texas	7.37	7.60	6.44	8.27	8.21	7.93	7.79	7.38
Utah	7.80	7.34	7.44	6.70	6.62	6.95	7.16	7.68
Vermont	6.72	7.30	6.50	5.34	5.56	5.27	6.01	6.54
Virginia	8.03	8.05	7.03	8.58	8.90	8.68	8.62	8.06
Washington	NA	8.35	8.47	NA	9.31	NA	8.50	NA
West Virginia	8.13	7.49	7.78	9.97	10.36	10.44	9.60	8.00
Wisconsin	6.33	6.69	6.23	6.87	6.54	5.82	6.00	5.65
Wyoming	6.80	6.97	6.47	7.21	7.02	7.09	6.98	7.00
Total	7.88	7.98	7.13	8.73	8.93	8.59	8.47	7.67

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2018				2017			
	March	February	January	Total	December	November	October	September
Alabama	11.93	11.87	11.47	12.03	11.83	12.18	12.61	12.97
Alaska	9.89	9.88	9.82	9.79	9.89	10.00	10.33	11.00
Arizona	9.16	9.13	9.20	8.97	9.17	9.44	9.40	9.35
Arkansas	8.44	8.03	7.80	8.34	8.33	8.55	8.61	8.68
California	8.91	9.16	8.93	8.76	8.64	8.00	7.78	7.95
Colorado	6.75	6.23	6.29	7.17	6.62	6.87	7.25	9.22
Connecticut	8.44	8.37	7.91	9.30	7.96	8.71	10.64	10.73
Delaware	NA	10.03	NA	10.37	10.35	10.88	12.52	11.82
District of Columbia	NA	11.10	9.87	10.87	10.10	11.03	11.17	11.37
Florida	11.34	11.88	11.74	10.97	10.90	11.17	11.15	11.06
Georgia	7.90	8.00	7.64	8.78	8.13	8.53	9.02	9.33
Hawaii	30.74	32.37	28.30	27.41	28.25	28.45	27.38	28.06
Idaho	6.18	NA	6.52	6.62	6.22	6.30	6.28	7.16
Illinois	6.54	6.34	6.18	7.78	6.16	6.59	7.90	12.09
Indiana	6.77	7.34	6.36	7.52	5.93	6.78	7.28	9.96
Iowa	6.48	NA	6.21	6.87	6.96	6.51	6.52	9.05
Kansas	9.13	8.17	7.94	9.36	8.24	7.99	9.97	13.94
Kentucky	8.06	7.99	7.38	9.06	7.75	8.71	10.16	11.83
Louisiana	NA	8.89	8.47	8.99	9.00	8.84	8.71	8.77
Maine	12.94	NA	12.68	11.33	11.35	10.75	11.58	12.33
Maryland	8.32	10.11	8.82	10.27	9.39	9.84	12.05	12.59
Massachusetts	NA	NA	NA	10.16	10.86	9.79	8.71	10.12
Michigan	6.61	6.77	6.48	7.02	6.40	6.61	7.57	8.47
Minnesota	NA	7.56	6.82	6.80	6.53	6.23	6.48	7.44
Mississippi	NA	8.42	7.61	8.82	8.58	8.73	8.59	9.24
Missouri	7.66	7.21	7.31	8.44	8.16	9.18	10.55	10.65
Montana	NA	6.81	6.95	7.42	7.39	7.24	7.72	8.82
Nebraska	6.44	6.52	6.08	6.37	6.19	6.10	6.48	6.78
Nevada	6.23	6.23	6.21	5.71	6.06	6.40	6.48	6.50
New Hampshire	13.25	11.84	11.15	11.71	11.83	12.78	15.10	16.06
New Jersey	9.22	9.42	8.92	9.14	9.27	9.47	9.12	8.66
New Mexico	5.64	5.59	5.71	6.59	6.19	7.25	7.60	7.41
New York	7.90	7.89	7.25	6.87	6.93	6.64	6.50	6.02
North Carolina	7.32	8.10	7.40	8.92	8.11	8.54	8.83	9.05
North Dakota	5.59	5.76	5.98	6.00	5.89	5.67	5.93	6.48
Ohio	5.53	5.66	5.46	6.11	5.31	5.48	6.54	7.44
Oklahoma	6.40	6.17	5.79	8.44	6.89	8.63	14.71	15.16
Oregon	8.29	8.14	9.03	8.74	8.28	8.57	8.84	9.84
Pennsylvania	8.96	9.47	8.80	9.16	8.74	8.79	10.34	11.10
Rhode Island	12.55	11.15	10.88	11.30	11.35	12.45	15.04	15.45
South Carolina	8.50	10.25	NA	9.30	9.45	9.30	8.56	9.05
South Dakota	NA	5.60	5.85	6.26	6.74	5.97	5.96	7.51
Tennessee	8.19	8.31	8.01	8.74	8.24	8.80	9.47	9.38
Texas	7.35	7.12	6.77	7.71	7.78	7.72	8.22	8.35
Utah	7.78	8.47	8.02	7.40	8.26	7.34	6.44	7.07
Vermont	6.88	7.48	7.80	7.04	7.19	6.17	6.07	6.04
Virginia	7.36	8.79	7.53	7.99	7.57	7.89	8.42	8.59
Washington	7.94	8.07	8.30	8.30	7.93	8.15	8.35	9.15
West Virginia	7.79	7.89	7.63	7.65	7.66	7.86	8.56	8.93
Wisconsin	6.22	6.73	6.48	6.60	6.54	6.49	5.84	6.92
Wyoming	6.74	6.53	6.70	6.92	6.61	6.74	6.96	7.41
Total	7.74	7.83	7.43	7.88	7.42	7.51	7.97	8.52

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2017							
	August	July	June	May	April	March	February	January
Alabama	13.08	13.11	12.80	12.73	12.18	11.49	11.36	11.15
Alaska	11.50	11.62	11.02	9.75	9.40	9.12	9.18	9.16
Arizona	9.50	9.22	9.03	8.96	9.10	8.94	8.33	8.29
Arkansas	9.24	9.27	9.16	8.79	8.56	8.25	8.13	7.59
California	8.31	8.40	8.74	8.68	8.81	9.47	9.34	9.60
Colorado	9.16	9.53	9.01	7.28	6.98	7.10	6.92	6.57
Connecticut	11.16	10.98	10.69	10.74	9.24	8.33	9.51	8.61
Delaware	13.39	12.79	11.67	10.95	9.94	9.76	9.61	9.44
District of Columbia	12.14	12.26	12.26	11.58	11.06	11.06	10.66	9.47
Florida	11.09	10.97	11.06	11.00	10.86	10.93	11.04	10.58
Georgia	9.71	9.37	9.80	9.39	9.11	8.55	8.86	8.40
Hawaii	28.56	27.37	26.30	26.98	26.98	27.41	27.16	26.22
Idaho	7.18	7.63	7.47	7.14	7.18	6.96	6.62	6.36
Illinois	13.60	12.43	12.52	11.00	9.14	7.25	7.59	6.90
Indiana	11.61	11.35	11.47	9.05	9.61	6.87	7.72	7.07
Iowa	9.29	9.56	8.98	7.77	6.84	6.12	6.40	6.41
Kansas	13.17	13.40	12.88	12.74	9.98	9.14	8.99	8.21
Kentucky	12.81	11.99	12.54	11.28	10.29	8.61	8.81	7.71
Louisiana	8.75	8.80	8.85	8.83	8.69	9.08	9.41	9.55
Maine	12.77	13.06	11.42	10.94	11.23	10.83	11.34	11.55
Maryland	12.49	11.30	12.16	11.76	11.48	9.18	9.98	9.54
Massachusetts	10.35	10.37	9.36	10.21	10.27	10.04	10.20	10.05
Michigan	9.65	9.15	9.00	7.92	7.31	6.80	6.86	6.65
Minnesota	8.08	7.72	8.10	7.04	6.80	6.36	6.94	7.08
Mississippi	8.69	8.69	8.47	8.84	8.93	8.68	9.09	9.03
Missouri	11.19	11.00	9.78	8.99	8.36	8.12	7.60	7.24
Montana	9.67	9.64	8.84	7.82	7.26	7.20	7.24	6.70
Nebraska	6.93	7.08	6.54	6.59	5.94	6.30	6.61	6.29
Nevada	6.75	6.40	5.90	5.85	5.38	5.14	5.02	5.09
New Hampshire	16.06	15.28	12.45	11.49	10.15	10.63	11.68	11.26
New Jersey	9.47	9.84	8.98	8.83	7.91	9.04	9.06	9.68
New Mexico	7.43	7.56	7.08	6.56	6.17	6.07	6.51	6.28
New York	5.95	6.64	6.87	6.90	6.99	7.14	7.51	6.82
North Carolina	8.88	8.63	9.94	10.69	10.16	8.35	9.88	8.67
North Dakota	7.15	7.65	7.57	6.52	5.68	5.67	6.32	5.74
Ohio	7.81	7.75	7.75	6.78	6.18	5.86	6.10	6.03
Oklahoma	16.05	14.86	13.30	11.40	9.56	7.91	6.88	5.94
Oregon	10.44	10.05	10.19	9.37	9.04	8.90	8.45	8.10
Pennsylvania	11.53	11.94	11.60	10.56	9.47	8.89	8.58	8.32
Rhode Island	15.73	15.38	13.10	12.02	10.63	10.42	10.45	10.02
South Carolina	8.86	9.04	8.95	8.64	9.66	8.59	10.15	10.31
South Dakota	7.68	7.63	7.41	6.26	5.83	5.77	6.43	5.77
Tennessee	9.65	9.56	9.41	9.13	8.76	8.50	8.56	8.33
Texas	8.37	8.19	7.70	7.57	7.62	7.19	7.51	7.40
Utah	7.40	7.28	6.83	6.51	7.47	7.71	7.48	7.29
Vermont	6.06	6.29	6.12	6.94	7.57	7.35	7.61	8.08
Virginia	9.00	8.76	9.18	9.07	8.05	7.19	8.45	7.44
Washington	9.86	9.48	9.40	7.68	8.27	8.22	8.22	8.03
West Virginia	9.37	9.54	9.48	8.28	7.71	7.09	7.02	6.97
Wisconsin	6.85	7.02	6.68	6.06	6.93	6.37	6.47	7.05
Wyoming	7.45	7.65	7.41	7.13	7.10	6.96	6.97	6.56
Total	8.76	8.81	8.75	8.31	8.04	7.68	7.89	7.58

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2016							
	Total	December	November	October	September	August	July	June
Alabama	10.66	11.13	12.09	11.83	11.70	11.76	11.62	11.20
Alaska	8.34	8.75	8.68	8.85	8.71	8.78	9.07	8.41
Arizona	8.83	8.03	8.22	8.52	8.64	8.65	8.74	8.73
Arkansas	7.14	7.59	8.63	7.01	6.89	7.16	6.90	7.22
California	8.42	9.96	9.28	9.08	9.16	8.74	8.07	7.43
Colorado	6.42	6.18	6.61	8.00	8.42	9.27	8.36	7.63
Connecticut	8.79	7.92	8.60	9.99	10.64	11.73	11.14	11.81
Delaware	9.58	9.88	10.36	11.42	11.86	12.11	11.50	10.86
District of Columbia	9.88	9.85	11.59	9.37	11.21	11.82	11.64	10.85
Florida	10.42	10.88	10.61	10.64	10.56	10.33	10.31	10.25
Georgia	7.92	7.55	8.77	9.29	9.55	9.59	9.35	8.73
Hawaii	24.78	25.31	22.95	25.40	25.04	23.45	23.14	30.09
Idaho	7.12	6.50	6.49	6.99	7.69	7.64	7.72	7.81
Illinois	7.14	6.44	8.08	9.03	12.30	12.93	12.26	10.93
Indiana	6.55	5.74	7.39	7.35	9.62	10.19	11.13	9.55
Iowa	5.99	5.96	6.48	6.86	7.53	8.14	7.82	7.12
Kansas	8.41	7.64	8.53	11.32	13.59	13.80	12.93	12.48
Kentucky	7.89	7.49	8.94	10.81	11.32	12.03	11.05	10.77
Louisiana	7.92	8.81	8.21	8.47	8.28	8.27	8.22	7.19
Maine	10.63	10.63	10.23	10.47	11.16	10.72	10.37	9.95
Maryland	8.94	8.83	10.06	10.89	11.78	11.49	11.34	9.65
Massachusetts	9.48	10.07	9.98	9.54	9.73	9.80	9.35	8.49
Michigan	6.90	6.56	6.94	7.58	9.02	9.31	8.65	8.50
Minnesota	6.44	6.30	6.28	6.73	7.88	7.79	7.90	7.08
Mississippi	7.80	8.10	8.57	8.11	7.56	7.49	7.61	7.04
Missouri	7.89	7.70	9.20	9.59	9.87	10.46	10.38	9.39
Montana	7.13	6.73	7.29	7.66	9.00	9.13	8.64	7.79
Nebraska	5.45	5.79	5.87	5.77	5.93	6.00	5.31	5.06
Nevada	6.84	5.37	5.78	6.24	6.87	6.89	7.22	7.08
New Hampshire	11.36	11.91	11.98	13.58	16.21	16.40	16.48	13.28
New Jersey	7.93	8.60	9.24	8.78	8.74	8.71	8.68	7.72
New Mexico	5.68	6.05	6.59	6.85	7.35	7.15	6.84	6.05
New York	6.19	6.50	5.97	5.59	5.33	5.30	5.58	5.77
North Carolina	7.71	8.36	8.05	7.95	8.19	8.30	8.77	8.52
North Dakota	5.45	5.43	5.60	5.82	6.74	7.29	7.01	6.68
Ohio	5.74	5.68	6.02	7.16	7.24	8.06	7.50	6.90
Oklahoma	7.72	6.86	12.30	14.46	14.76	15.03	13.80	12.31
Oregon	9.30	7.88	9.24	9.24	9.93	10.74	11.13	11.30
Pennsylvania	8.15	7.94	8.31	9.16	11.02	10.84	11.07	10.67
Rhode Island	11.16	10.27	11.48	14.53	16.35	15.78	15.43	13.58
South Carolina	8.42	9.48	9.01	9.02	8.56	8.48	8.71	7.79
South Dakota	5.64	5.72	5.97	6.30	7.16	7.90	6.98	6.46
Tennessee	7.80	8.23	9.06	9.78	9.10	9.49	8.70	8.30
Texas	6.89	7.60	8.25	8.52	8.15	8.26	7.52	6.73
Utah	7.43	7.65	7.50	6.71	6.84	7.10	7.01	6.84
Vermont	6.63	7.48	7.07	6.19	6.33	5.59	5.87	5.51
Virginia	7.23	7.55	7.54	7.68	8.67	8.40	8.20	7.66
Washington	8.49	8.14	8.60	8.78	9.45	9.87	9.37	9.64
West Virginia	7.75	7.10	7.50	8.72	9.99	10.27	10.14	9.78
Wisconsin	6.29	6.50	6.47	5.86	6.55	6.55	6.98	5.26
Wyoming	6.54	6.52	6.76	6.85	7.13	6.82	6.91	7.02
Total	7.28	7.27	7.67	7.96	8.28	8.30	8.14	7.72

See footnotes at end of table.

Table 21. Average price of natural gas sold to commercial consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2016				
	May	April	March	February	January
Alabama	10.51	10.52	10.10	9.75	9.86
Alaska	8.00	7.90	7.87	7.87	7.88
Arizona	8.81	9.10	9.77	9.36	8.97
Arkansas	7.11	6.85	7.11	6.74	7.16
California	7.33	7.18	8.16	8.48	8.03
Colorado	6.15	5.96	5.92	5.96	5.80
Connecticut	9.86	9.36	7.92	7.29	7.31
Delaware	10.03	9.33	8.79	8.58	8.75
District of Columbia	9.83	9.83	9.81	8.92	9.12
Florida	10.04	10.12	10.33	10.46	10.54
Georgia	8.39	8.17	7.60	7.22	6.78
Hawaii	27.54	25.75	25.00	21.69	22.17
Idaho	7.71	7.82	7.61	7.22	7.10
Illinois	9.47	6.99	6.51	5.88	5.54
Indiana	7.21	6.42	7.04	5.67	5.33
Iowa	5.81	5.55	5.80	5.40	5.36
Kansas	10.16	8.38	8.96	7.26	6.75
Kentucky	9.19	8.00	7.11	6.39	6.73
Louisiana	7.26	7.12	7.69	7.69	8.02
Maine	9.45	10.15	10.69	11.08	11.27
Maryland	8.11	8.20	8.70	8.02	8.25
Massachusetts	9.22	9.45	9.14	9.50	9.34
Michigan	7.28	6.62	6.63	6.64	6.53
Minnesota	6.40	6.17	6.43	6.24	6.15
Mississippi	7.51	8.04	7.83	7.55	7.93
Missouri	8.55	7.92	7.22	6.94	7.08
Montana	6.97	6.68	6.96	6.91	6.80
Nebraska	4.71	4.98	5.38	5.46	5.40
Nevada	7.04	7.25	7.59	7.48	7.34
New Hampshire	11.22	9.96	9.55	10.47	11.46
New Jersey	7.14	6.79	7.49	7.65	7.75
New Mexico	5.47	5.25	5.20	5.02	5.07
New York	6.03	6.21	6.48	6.70	6.70
North Carolina	8.02	7.78	8.27	6.97	6.64
North Dakota	5.36	4.62	5.20	5.16	5.20
Ohio	6.05	5.26	5.22	5.21	5.23
Oklahoma	10.88	8.09	6.78	5.42	5.39
Oregon	10.79	10.02	9.51	9.38	8.74
Pennsylvania	8.92	8.12	8.22	7.37	7.19
Rhode Island	11.51	10.79	10.32	10.10	10.37
South Carolina	7.43	8.36	8.36	8.12	7.80
South Dakota	5.07	4.94	5.60	5.36	5.04
Tennessee	7.63	7.61	7.03	7.02	6.95
Texas	6.84	6.14	6.17	5.85	5.98
Utah	6.77	7.37	7.91	7.55	7.46
Vermont	6.71	6.60	6.22	7.00	7.14
Virginia	7.17	6.59	7.12	6.62	6.82
Washington	8.09	7.99	8.03	8.63	8.08
West Virginia	9.00	7.89	7.56	7.30	7.24
Wisconsin	5.29	5.98	6.07	6.35	6.59
Wyoming	6.47	6.47	6.48	6.37	6.28
Total	7.32	6.98	7.08	6.86	6.75

^R Revised data.

^{NA} Not available.

Notes: Geographic coverage is the 50 states and the District of Columbia. Average prices for gas delivered to commercial consumers reflect onsystem sales prices, with the following exception: Commercial price data are based on total gas deliveries in the states of Georgia, New York and Ohio only. Published prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges. Prices are in nominal dollars. See Appendix A, Explanatory Note 8, for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of total residential, total commercial, and total industrial deliveries.

Sources: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-910, "Monthly Natural Gas Marketer Survey."

Table 22. Average price of natural gas sold to industrial consumers, by state, 2016-2018
(dollars per thousand cubic feet)

State	2018	2017	2016	2018				
	8-Month YTD	8-Month YTD	8-Month YTD	August	July	June	May	April
Alabama	4.15	4.32	3.48	3.88	3.90	3.89	3.90	3.90
Alaska	5.55	4.74	5.32	5.87	6.01	5.34	5.54	4.92
Arizona	NA	6.34	5.82	NA	6.45	6.50	6.50	NA
Arkansas	6.83	6.72	5.59	7.05	7.08	6.70	6.55	6.61
California	NA	7.35	6.35	NA	6.43	6.09	6.08	6.35
Colorado	5.43	5.59	4.73	6.24	6.64	6.55	5.45	4.88
Connecticut	6.59	6.64	6.14	6.37	6.61	6.91	6.95	6.52
Delaware	NA	9.67	8.40	10.79	NA	NA	11.06	9.59
District of Columbia	--	--	--	--	--	--	--	--
Florida	6.41	6.21	5.80	6.66	5.93	5.51	6.38	6.49
Georgia	NA	4.75	3.90	4.29	4.38	NA	4.38	4.61
Hawaii	NA	19.06	17.48	22.37	23.04	23.32	23.05	22.04
Idaho	4.38	4.53	5.45	4.24	4.39	4.33	4.43	4.43
Illinois	NA	6.24	4.77	7.23	6.99	5.97	5.37	4.88
Indiana	6.24	6.36	4.83	7.31	7.39	6.56	6.42	6.09
Iowa	NA	5.14	4.56	4.78	4.45	4.32	4.36	5.17
Kansas	4.47	4.12	3.60	4.30	4.30	4.32	4.35	4.58
Kentucky	NA	4.53	3.60	3.84	3.88	3.84	3.97	4.07
Louisiana	NA	3.76	2.82	NA	3.35	3.29	3.44	2.99
Maine	9.41	8.23	7.52	5.79	6.41	6.30	6.81	11.17
Maryland	NA	9.81	8.54	9.02	8.97	NA	8.47	7.95
Massachusetts	10.47	8.11	7.27	7.47	6.82	7.60	10.40	13.18
Michigan	5.98	6.01	5.75	7.02	6.20	6.75	6.27	5.89
Minnesota	NA	4.56	4.07	4.50	4.48	4.49	NA	4.08
Mississippi	4.94	5.13	4.19	4.71	4.80	4.63	4.59	4.72
Missouri	6.52	6.63	6.15	5.65	5.80	5.63	5.97	6.96
Montana	6.50	6.53	6.08	5.81	5.65	6.19	6.21	6.80
Nebraska	4.49	4.63	3.95	4.33	4.20	3.82	3.84	4.23
Nevada	5.73	4.83	6.39	5.91	6.14	6.33	5.95	5.64
New Hampshire	NA	9.07	8.41	7.77	7.86	NA	10.84	NA
New Jersey	NA	7.85	6.38	NA	6.82	NA	6.51	6.65
New Mexico	NA	5.00	3.85	NA	NA	NA	NA	3.68
New York	7.88	7.39	5.98	7.40	7.94	8.06	7.96	7.92
North Carolina	NA	6.32	5.36	5.90	5.81	5.88	6.03	6.16
North Dakota	3.02	3.03	2.35	2.78	2.72	2.65	2.65	2.57
Ohio	NA	6.77	4.57	NA	NA	7.44	6.65	6.11
Oklahoma	NA	3.45	2.89	2.29	2.35	NA	1.99	1.66
Oregon	5.21	5.36	5.72	5.14	5.19	4.93	5.05	5.09
Pennsylvania	NA	8.18	7.13	9.38	9.82	9.36	8.60	8.44
Rhode Island	NA	8.46	8.70	10.97	11.63	11.46	11.41	NA
South Carolina	4.76	4.92	3.94	4.32	4.65	4.39	4.33	4.38
South Dakota	4.70	5.18	4.65	5.46	5.55	4.76	4.36	4.21
Tennessee	5.05	5.10	4.26	4.38	4.61	4.45	4.68	4.92
Texas	3.17	3.36	2.40	2.99	3.19	3.22	3.10	2.98
Utah	5.64	5.53	5.62	4.71	4.64	5.19	5.32	5.86
Vermont	4.47	5.13	5.13	4.26	4.22	4.14	4.18	4.22
Virginia	5.05	5.12	4.34	5.36	5.00	4.91	5.05	4.66
Washington	NA	7.43	7.57	NA	NA	NA	7.67	7.51
West Virginia	3.34	3.02	2.42	3.15	3.25	3.17	3.14	3.07
Wisconsin	4.96	5.40	4.96	3.98	3.92	4.26	3.98	4.20
Wyoming	3.89	4.28	3.76	3.50	3.22	3.24	3.92	4.31
Total	4.07	4.18	3.28	3.73	3.78	3.78	3.81	3.91

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2018				2017			
	March	February	January	Total	December	November	October	September
Alabama	3.93	4.90	4.75	4.24	4.31	4.11	3.92	3.89
Alaska	5.29	5.57	5.68	4.63	4.73	4.59	4.02	3.63
Arizona	6.99	7.04	6.64	6.47	6.57	6.92	6.72	6.77
Arkansas	7.09	6.83	6.77	6.67	6.48	6.62	6.63	6.66
California	7.43	7.46	7.53	7.05	7.14	6.38	6.09	6.24
Colorado	5.22	5.15	5.06	5.58	5.04	5.18	7.00	5.77
Connecticut	6.57	6.57	6.43	6.48	6.12	6.08	5.97	6.38
Delaware	9.88	10.07	10.58	9.91	10.51	12.01	10.38	10.08
District of Columbia	--	--	--	--	--	--	--	--
Florida	6.84	5.87	7.36	6.17	5.82	6.20	6.26	6.11
Georgia	4.45	5.19	4.42	4.68	4.61	4.38	4.53	4.68
Hawaii	21.57	21.71	NA	19.62	22.24	20.83	21.09	19.75
Idaho	4.33	4.38	4.52	4.44	4.38	4.02	4.35	4.42
Illinois	5.02	NA	5.17	5.76	4.86	4.99	5.10	5.75
Indiana	5.84	5.87	6.38	5.99	4.85	5.34	5.43	7.01
Iowa	5.27	NA	5.53	5.21	5.55	5.12	5.06	5.33
Kansas	4.71	6.91	7.19	4.16	5.71	4.94	4.51	3.88
Kentucky	4.35	NA	4.46	4.46	4.54	4.26	4.26	4.15
Louisiana	3.64	3.47	3.74	3.64	3.35	3.41	3.53	3.46
Maine	11.71	11.69	9.71	8.15	9.59	9.29	5.26	5.30
Maryland	7.50	7.75	8.13	9.84	9.71	9.25	10.79	11.22
Massachusetts	11.87	11.51	9.64	8.02	8.96	7.77	5.63	7.20
Michigan	5.96	5.96	5.76	5.97	5.64	5.96	6.02	6.94
Minnesota	4.34	5.30	4.82	4.48	4.66	4.05	4.40	4.24
Mississippi	5.25	5.29	5.24	5.07	5.08	4.86	4.89	4.91
Missouri	6.79	6.73	6.83	6.64	6.84	6.96	6.43	6.03
Montana	6.55	6.38	7.02	6.60	7.41	6.55	6.49	6.38
Nebraska	5.15	4.95	4.90	4.54	4.45	4.28	4.21	4.38
Nevada	5.57	5.48	5.48	5.06	5.21	5.48	5.65	5.69
New Hampshire	NA	9.39	NA	9.09	10.03	8.92	7.66	7.99
New Jersey	8.90	8.79	8.39	7.92	8.06	8.05	8.62	8.32
New Mexico	4.54	4.82	4.89	5.06	5.37	5.30	5.15	4.87
New York	8.51	7.90	7.38	7.21	7.20	6.71	6.44	6.17
North Carolina	5.95	6.53	NA	6.24	6.29	6.02	5.89	6.09
North Dakota	2.71	4.06	3.78	3.15	3.97	3.12	2.89	3.78
Ohio	6.23	NA	NA	6.71	6.24	6.42	7.24	8.04
Oklahoma	2.49	3.29	3.10	3.30	3.13	2.94	3.02	2.87
Oregon	5.36	5.39	5.35	5.31	5.18	5.28	5.17	5.19
Pennsylvania	8.49	NA	8.09	8.38	8.91	8.95	9.16	9.13
Rhode Island	10.14	8.75	8.62	8.48	8.62	8.45	8.41	8.59
South Carolina	4.67	5.40	6.08	4.86	5.17	4.54	4.58	4.71
South Dakota	4.83	4.74	4.67	5.09	4.87	4.61	5.35	6.04
Tennessee	5.28	5.96	5.57	5.04	5.22	4.95	4.69	4.70
Texas	2.87	3.78	3.32	3.28	3.22	2.98	3.12	3.21
Utah	6.14	6.33	6.25	5.51	6.02	5.45	5.15	5.13
Vermont	4.33	5.00	5.08	4.92	4.71	4.40	4.42	4.48
Virginia	5.04	5.33	5.07	5.04	5.15	4.64	4.69	4.92
Washington	7.60	7.62	7.49	7.39	7.45	7.34	7.11	7.22
West Virginia	3.10	4.36	3.40	3.21	4.12	4.07	3.03	2.80
Wisconsin	5.25	6.13	5.66	5.34	5.60	5.54	4.46	4.66
Wyoming	4.21	4.02	4.03	4.28	4.21	4.25	4.36	4.38
Total	4.02	4.86	4.49	4.10	4.21	3.85	3.79	3.84

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2017							
	August	July	June	May	April	March	February	January
Alabama	3.93	4.07	4.21	4.18	4.25	4.08	4.70	5.07
Alaska	3.16	3.04	4.96	4.96	5.02	5.13	4.99	5.06
Arizona	7.26	6.49	6.86	6.31	6.18	5.95	6.04	6.18
Arkansas	7.03	6.74	6.69	6.53	6.80	6.63	6.69	6.73
California	6.43	6.59	7.01	7.05	7.19	7.71	7.96	8.38
Colorado	5.91	6.35	6.08	5.66	5.19	5.60	5.48	5.37
Connecticut	6.03	5.90	5.80	6.41	6.28	6.69	8.06	7.21
Delaware	13.21	13.50	10.22	9.81	9.07	9.57	9.11	8.93
District of Columbia	--	--	--	--	--	--	--	--
Florida	6.36	5.99	6.07	6.09	5.98	6.51	6.46	6.13
Georgia	4.60	4.45	4.67	4.64	4.74	4.29	5.12	5.48
Hawaii	18.87	18.57	19.10	19.60	18.83	19.22	19.69	18.66
Idaho	4.47	4.48	4.59	4.44	4.57	4.52	4.59	4.52
Illinois	6.44	7.17	6.70	6.78	6.31	5.87	6.15	6.12
Indiana	7.98	7.11	7.93	6.32	7.03	5.69	6.08	5.82
Iowa	5.18	5.43	5.51	5.31	5.06	4.69	5.14	5.22
Kansas	3.76	3.83	4.01	4.74	4.67	5.08	6.88	6.75
Kentucky	4.18	4.27	4.48	4.37	4.42	4.34	4.90	5.14
Louisiana	3.55	3.62	3.74	3.32	3.14	3.59	4.56	4.52
Maine	5.42	6.34	6.48	6.61	9.28	9.27	9.35	9.33
Maryland	10.67	11.28	11.91	10.56	11.53	8.52	9.82	9.49
Massachusetts	7.26	7.46	7.10	8.76	8.28	8.17	8.44	8.23
Michigan	6.73	6.47	6.40	6.36	6.10	5.89	5.99	5.77
Minnesota	4.19	4.14	4.44	4.23	4.40	4.42	4.86	5.15
Mississippi	4.80	5.02	4.84	4.92	4.62	5.28	5.92	5.47
Missouri	6.24	6.21	6.02	6.04	6.45	6.95	7.12	6.88
Montana	5.70	6.66	6.50	6.53	6.00	6.81	6.90	6.54
Nebraska	4.32	4.40	4.44	4.33	4.33	4.81	5.23	4.73
Nevada	6.03	5.74	5.48	5.15	4.61	4.47	4.38	4.36
New Hampshire	7.58	7.81	7.14	7.98	8.88	9.13	10.27	10.13
New Jersey	8.19	7.82	8.37	7.03	6.81	7.07	8.67	8.11
New Mexico	4.95	4.87	4.88	4.81	4.61	5.02	5.91	5.57
New York	6.82	8.04	7.78	7.20	7.85	7.49	7.45	6.91
North Carolina	6.07	6.04	5.97	6.07	6.35	6.34	6.65	6.66
North Dakota	2.82	2.85	2.95	2.81	2.89	2.66	3.45	3.96
Ohio	7.85	8.69	9.21	8.06	6.54	5.85	6.56	6.87
Oklahoma	3.13	3.46	3.39	3.22	3.21	2.93	3.82	4.22
Oregon	5.50	5.41	5.39	5.28	5.29	5.43	5.39	5.25
Pennsylvania	9.36	10.50	8.99	8.22	8.68	8.01	7.92	7.79
Rhode Island	8.74	8.74	8.43	8.55	8.67	8.39	8.34	8.06
South Carolina	4.56	4.98	4.83	4.69	4.83	4.46	5.14	5.78
South Dakota	5.64	5.62	5.20	5.22	4.57	5.01	5.36	5.20
Tennessee	4.66	4.77	4.94	4.86	4.93	5.03	5.61	5.76
Texas	3.19	3.40	3.51	3.37	3.34	2.81	3.43	3.84
Utah	5.12	5.20	5.04	5.14	5.70	5.87	5.98	6.03
Vermont	4.47	4.51	4.68	4.78	5.04	5.34	5.67	6.02
Virginia	5.22	4.94	5.41	5.04	4.87	4.67	5.61	5.38
Washington	7.42	7.73	7.38	7.52	7.52	7.35	7.59	7.19
West Virginia	2.85	2.90	2.85	2.92	2.90	3.16	3.46	3.11
Wisconsin	4.54	4.24	4.74	4.69	5.82	5.34	5.55	6.32
Wyoming	4.35	4.39	4.24	3.96	4.24	4.37	4.52	4.18
Total	3.79	3.93	4.06	4.03	4.13	3.94	4.56	4.87

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2016							
	Total	December	November	October	September	August	July	June
Alabama	3.79	4.91	4.33	4.24	4.11	3.82	3.98	3.34
Alaska	5.06	5.21	4.83	4.53	4.45	5.64	5.17	4.58
Arizona	5.79	5.94	5.82	5.61	5.56	5.98	5.81	4.97
Arkansas	5.78	6.59	6.30	5.80	5.76	5.81	5.33	5.21
California	6.79	8.44	7.48	7.27	7.35	6.91	6.30	5.80
Colorado	4.89	4.75	5.02	6.08	6.12	6.31	6.17	5.46
Connecticut	6.07	6.07	5.62	5.97	6.06	6.15	6.17	6.03
Delaware	9.02	9.04	10.07	10.31	11.86	10.24	8.94	8.72
District of Columbia	--	--	--	--	--	--	--	--
Florida	5.77	5.60	5.77	6.14	5.28	5.77	5.45	5.30
Georgia	4.13	4.93	4.42	4.47	4.49	4.38	4.27	3.65
Hawaii	17.74	18.72	18.98	17.90	17.68	18.11	18.65	19.11
Idaho	5.19	4.51	4.61	4.63	5.41	5.46	5.43	5.46
Illinois	5.03	5.22	5.83	5.72	6.07	7.16	6.99	5.49
Indiana	4.99	5.28	5.36	5.06	5.90	6.11	5.89	5.13
Iowa	4.70	5.15	4.68	4.94	4.96	4.33	4.66	4.44
Kansas	3.69	5.27	4.54	3.63	3.69	3.55	3.48	3.31
Kentucky	3.84	4.57	4.36	4.24	4.06	3.73	4.07	3.05
Louisiana	3.11	3.89	4.05	3.53	3.36	3.17	3.40	2.50
Maine	7.68	9.38	8.83	5.99	6.09	5.99	5.58	5.55
Maryland	8.80	8.97	9.47	10.69	10.34	12.50	13.80	9.80
Massachusetts	7.40	8.41	8.15	7.11	6.06	6.33	6.30	6.13
Michigan	5.75	5.63	5.55	6.11	6.05	6.00	6.38	5.98
Minnesota	4.19	4.65	4.35	4.28	4.21	4.19	4.41	3.70
Mississippi	4.34	4.70	4.81	4.59	4.50	4.48	3.86	3.85
Missouri	6.29	6.97	6.70	6.04	6.12	6.36	7.00	6.03
Montana	6.06	6.17	5.94	5.84	6.08	6.78	5.18	6.63
Nebraska	4.04	4.51	4.25	4.00	4.08	3.97	3.67	3.35
Nevada	5.90	4.60	5.07	5.21	5.88	5.80	6.52	6.11
New Hampshire	8.59	10.11	9.06	7.58	8.06	8.21	8.24	7.14
New Jersey	6.59	7.29	7.24	6.42	6.95	7.78	7.74	6.53
New Mexico	4.18	4.86	4.30	4.72	4.54	4.29	3.93	3.50
New York	5.92	6.11	5.69	5.56	5.29	5.70	5.56	5.55
North Carolina	5.43	6.12	5.46	5.26	5.26	5.20	5.15	5.09
North Dakota	2.62	3.45	2.86	2.91	2.87	3.76	3.03	2.13
Ohio	4.81	4.95	5.45	6.07	6.43	6.46	6.76	5.58
Oklahoma	2.94	2.36	3.70	3.13	4.85	4.57	3.82	4.05
Oregon	5.73	5.72	5.82	5.75	5.66	5.73	5.59	5.77
Pennsylvania	7.40	7.75	8.35	8.56	8.65	5.79	9.17	7.99
Rhode Island	8.70	8.00	8.83	9.01	9.16	9.22	8.91	8.76
South Carolina	4.20	5.30	4.77	4.48	4.37	4.24	4.46	3.58
South Dakota	4.78	4.78	4.94	5.09	6.12	6.01	5.20	4.78
Tennessee	4.44	5.31	4.80	4.70	4.49	4.36	4.42	3.68
Texas	2.65	3.35	2.93	3.22	3.15	3.02	2.98	2.16
Utah	5.52	5.89	5.17	4.96	4.93	5.00	5.02	5.10
Vermont	5.20	5.68	5.20	5.13	5.14	5.31	5.61	4.97
Virginia	4.42	4.79	4.46	4.41	4.46	4.55	4.16	4.31
Washington	7.47	7.38	7.24	7.20	7.33	7.77	7.76	8.16
West Virginia	2.43	2.52	2.40	2.52	2.33	2.26	2.30	2.40
Wisconsin	5.05	5.66	5.35	4.64	4.61	4.30	4.64	3.45
Wyoming	3.96	4.58	4.64	4.27	3.93	3.94	3.60	3.66
Total	3.51	4.27	3.86	3.87	3.74	3.59	3.57	2.89

See footnotes at end of table.

Table 22. Average price of natural gas sold to industrial consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2016				
	May	April	March	February	January
Alabama	2.97	3.22	3.21	3.66	3.65
Alaska	3.69	6.36	6.75	6.74	4.88
Arizona	5.64	5.70	5.91	6.22	6.51
Arkansas	5.27	5.31	5.83	5.67	5.94
California	5.84	5.70	6.67	6.90	6.56
Colorado	4.25	4.36	4.95	4.50	4.21
Connecticut	6.56	6.82	5.82	5.69	6.08
Delaware	8.56	7.91	8.24	7.93	8.09
District of Columbia	--	--	--	--	--
Florida	5.20	5.73	6.29	6.12	6.37
Georgia	3.60	3.55	3.56	4.07	4.14
Hawaii	17.00	16.33	15.51	16.32	18.26
Idaho	5.44	5.51	5.46	5.46	5.41
Illinois	4.45	4.94	4.74	4.54	4.29
Indiana	4.22	4.52	4.81	4.98	4.47
Iowa	4.07	4.44	4.86	4.36	5.01
Kansas	3.39	3.44	4.29	6.25	6.75
Kentucky	3.42	3.00	3.53	3.87	4.03
Louisiana	2.57	2.50	2.41	2.95	3.08
Maine	5.78	8.46	8.51	8.52	8.46
Maryland	7.35	7.56	8.54	8.45	8.30
Massachusetts	7.25	7.49	7.43	7.78	7.64
Michigan	5.75	5.54	5.57	5.88	5.72
Minnesota	3.60	3.50	3.89	4.35	4.40
Mississippi	3.72	4.00	4.28	4.52	4.58
Missouri	5.53	6.02	6.10	6.28	6.06
Montana	5.17	5.79	5.92	6.72	6.30
Nebraska	3.27	3.77	4.32	4.32	4.41
Nevada	6.00	6.22	6.75	6.66	6.50
New Hampshire	7.48	7.90	7.97	8.96	9.60
New Jersey	5.61	5.14	6.90	6.25	6.44
New Mexico	3.39	3.46	3.76	4.06	4.25
New York	5.72	5.88	6.20	6.24	6.22
North Carolina	5.11	5.33	5.70	5.61	5.34
North Dakota	1.95	2.13	2.14	2.89	2.48
Ohio	5.33	4.25	4.10	4.17	4.36
Oklahoma	3.53	3.12	2.17	2.09	3.84
Oregon	5.73	5.80	5.76	5.78	5.61
Pennsylvania	8.25	6.75	7.23	6.84	7.09
Rhode Island	8.91	8.77	8.40	8.44	8.61
South Carolina	3.56	3.22	3.58	4.21	4.83
South Dakota	4.33	4.10	4.50	4.51	4.83
Tennessee	3.80	3.83	4.28	4.77	4.69
Texas	2.14	2.08	1.88	2.39	2.45
Utah	5.14	5.68	5.97	6.44	6.08
Vermont	5.13	4.93	4.96	5.17	5.14
Virginia	4.08	3.78	4.39	4.48	4.79
Washington	7.33	7.38	7.47	7.72	7.38
West Virginia	2.28	2.17	2.59	2.69	2.47
Wisconsin	3.98	5.07	4.96	5.47	5.76
Wyoming	3.71	3.65	3.68	3.82	3.95
Total	2.90	3.00	3.02	3.58	3.62

^R Revised data.

-- Not applicable.

^{NA} Not available.

Notes: Geographic coverage is the 50 states and the District of Columbia. Average prices for gas delivered to industrial consumers reflect onsystem sales prices only. Published prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges. Prices are in nominal dollars. See Appendix A, Explanatory Note 8, for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of total residential, total commercial, and total industrial deliveries.

Sources: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2016-2018
(dollars per thousand cubic feet)

State	2018	2017	2016	2018				
	8-Month YTD	8-Month YTD	8-Month YTD	August	July	June	May	April
Alabama	W	W	W	W	W	W	W	W
Alaska	8.00	8.09	6.56	7.72	7.76	7.76	7.76	7.76
Arizona	W	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W	W
California	W	W	W	5.88	7.92	3.36	2.88	3.06
Colorado	W	W	W	W	W	W	W	W
Connecticut	4.60	W	3.71	3.22	3.04	2.79	2.74	3.92
Delaware	--	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--
Florida	W	W	W	W	W	W	W	W
Georgia	W	W	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--	--	--
Idaho	2.66	--	2.88	2.69	2.63	2.27	--	--
Illinois	W	W	W	3.15	3.10	2.90	3.17	W
Indiana	W	W	W	3.24	3.07	R3.14	R3.10	W
Iowa	2.90	3.31	2.64	3.02	2.78	2.79	2.63	2.84
Kansas	3.11	3.64	3.31	3.23	3.27	2.95	2.67	3.10
Kentucky	W	W	W	W	W	W	W	W
Louisiana	W	W	W	W	W	W	W	W
Maine	W	W	W	--	W	--	W	W
Maryland	W	3.78	3.01	3.47	R3.34	3.47	3.56	3.27
Massachusetts	W	W	3.02	3.21	2.90	2.84	2.47	5.54
Michigan	3.21	3.30	2.63	3.40	3.20	3.18	2.98	3.11
Minnesota	W	W	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W	W	W
Missouri	W	3.12	W	W	W	W	W	W
Montana	1.36	1.96	W	1.04	1.26	1.01	1.14	1.26
Nebraska	3.76	4.00	3.22	3.66	3.24	3.37	3.05	3.94
Nevada	3.00	3.59	2.82	3.37	3.08	2.60	2.40	2.76
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	3.26	3.01	2.12	2.94	2.71	2.70	2.52	2.90
New Mexico	2.63	3.61	2.88	2.45	2.59	2.64	2.18	2.04
New York	3.87	3.52	2.67	3.21	3.09	2.95	2.82	3.19
North Carolina	W	W	W	W	W	W	W	W
North Dakota	6.26	5.45	2.52	3.17	5.63	5.39	2.24	5.50
Ohio	3.00	3.12	2.23	3.03	2.98	2.95	2.76	2.87
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	3.05	2.77	1.87	2.80	2.62	2.53	2.44	2.65
Rhode Island	W	W	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W	W	W
South Dakota	--	--	2.42	--	--	--	--	--
Tennessee	2.93	3.07	2.39	2.87	2.73	2.91	2.61	2.59
Texas	3.05	3.16	2.49	3.05	2.95	3.01	2.87	2.84
Utah	2.82	W	W	2.87	2.73	2.61	2.49	2.54
Vermont	--	--	--	--	--	--	--	--
Virginia	W	W	W	3.37	3.23	3.29	3.24	3.50
Washington	W	4.24	W	W	W	W	W	W
West Virginia	W	W	W	W	W	W	W	W
Wisconsin	3.17	W	W	3.04	2.96	3.10	2.96	3.24
Wyoming	W	W	W	W	W	W	W	W
Total	3.57	3.54	2.81	3.39	3.42	3.21	3.15	3.25

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2018					2017		
	March	February	January	Total	December	November	October	September
Alabama	W	W	W	W	W	W	W	W
Alaska	8.44	8.44	8.44	8.10	8.13	8.13	8.09	8.09
Arizona	W	3.33	W	3.68	W	W	W	W
Arkansas	W	W	W	W	W	W	W	W
California	W	3.72	3.79	W	W	W	W	W
Colorado	W	W	W	W	W	W	W	W
Connecticut	4.25	7.69	11.06	W	W	4.17	2.86	2.67
Delaware	--	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--
Florida	W	W	W	W	4.58	4.38	W	W
Georgia	W	W	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--	--	--
Idaho	--	3.32	--	--	--	--	--	--
Illinois	W	W	4.90	3.11	W	W	W	W
Indiana	W	W	4.32	W	W	W	W	W
Iowa	2.54	2.65	4.17	3.24	5.61	3.18	2.76	2.87
Kansas	3.03	3.46	4.32	3.68	4.27	3.52	3.24	3.65
Kentucky	W	W	W	W	W	W	W	W
Louisiana	W	W	W	W	W	W	W	W
Maine	W	W	W	W	W	--	W	W
Maryland	3.24	W	W	W	4.89	3.28	3.21	3.00
Massachusetts	4.27	W	14.30	3.82	8.72	W	W	2.29
Michigan	2.86	2.99	3.97	3.27	3.09	3.30	3.11	3.29
Minnesota	W	W	W	W	3.16	W	W	W
Mississippi	W	W	W	W	W	W	W	W
Missouri	W	W	W	3.03	2.97	2.73	2.68	3.10
Montana	1.68	1.82	2.06	1.85	1.98	1.91	0.72	1.49
Nebraska	4.53	4.74	6.76	4.19	5.97	4.89	4.02	4.12
Nevada	2.91	3.39	3.37	3.50	3.47	3.40	3.14	3.35
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	2.95	3.07	7.90	3.01	5.39	2.95	1.63	2.04
New Mexico	2.59	3.06	4.18	3.58	3.67	3.69	3.36	3.45
New York	3.50	5.50	8.21	3.44	5.12	3.40	2.33	2.36
North Carolina	W	W	W	W	W	W	W	W
North Dakota	2.74	16.91	15.38	5.31	7.74	5.43	8.67	4.98
Ohio	2.72	2.96	3.63	3.05	3.00	2.94	2.89	2.81
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	2.66	3.36	5.92	2.58	3.93	2.37	1.47	1.71
Rhode Island	W	W	W	W	W	W	W	W
South Carolina	W	3.68	W	W	W	W	W	W
South Dakota	--	--	--	--	--	--	--	--
Tennessee	2.77	3.17	3.61	3.04	3.02	2.92	2.88	2.99
Texas	2.75	2.90	4.07	3.13	2.95	3.10	3.11	3.11
Utah	2.89	3.39	3.19	W	W	W	W	W
Vermont	--	--	--	--	--	--	--	--
Virginia	W	W	W	3.48	W	W	W	2.67
Washington	W	W	W	4.11	4.13	4.39	3.70	3.94
West Virginia	W	W	W	W	W	W	W	W
Wisconsin	2.92	3.38	3.99	W	3.04	3.39	3.16	3.23
Wyoming	W	W	W	W	3.10	3.69	W	W
Total	3.32	3.74	5.35	3.52	3.81	3.50	3.27	3.31

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2017							
	August	July	June	May	April	March	February	January
Alabama	W	W	W	W	W	W	W	W
Alaska	8.09	8.09	8.09	8.09	8.09	8.09	8.09	8.09
Arizona	W	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W	W
California	W	W	W	W	W	W	W	W
Colorado	W	W	W	W	W	W	W	W
Connecticut	W	W	W	W	W	W	5.84	8.10
Delaware	--	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--
Florida	W	W	4.33	W	3.59	4.02	4.38	4.92
Georgia	W	W	W	W	W	W	W	W
Hawaii	--	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--	--
Illinois	W	3.23	3.06	W	W	W	W	W
Indiana	W	W	W	W	W	W	W	W
Iowa	2.80	2.92	2.74	2.84	2.85	4.71	4.85	5.12
Kansas	3.44	3.22	3.43	4.10	3.88	3.52	4.82	4.92
Kentucky	W	W	W	W	W	W	5.96	W
Louisiana	W	W	W	W	W	W	W	W
Maine	W	W	W	--	W	W	W	W
Maryland	3.27	3.44	3.25	3.37	3.40	4.90	4.25	5.50
Massachusetts	2.42	2.58	2.65	3.36	3.47	4.35	W	W
Michigan	3.23	3.21	3.22	3.44	3.45	3.16	3.18	3.63
Minnesota	W	W	W	W	3.40	W	3.49	4.49
Mississippi	W	W	W	W	W	W	W	W
Missouri	3.19	3.07	3.22	3.40	3.03	2.59	3.05	3.43
Montana	1.52	1.52	2.10	2.49	2.22	2.09	2.25	2.36
Nebraska	3.64	3.48	3.51	4.03	4.37	5.17	6.48	5.61
Nevada	3.27	3.29	3.48	3.49	3.74	3.60	3.80	4.37
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	2.19	2.44	2.42	3.24	3.34	3.45	3.64	4.06
New Mexico	3.50	3.53	3.51	3.69	3.85	3.27	3.65	4.02
New York	2.56	2.75	2.96	3.29	3.39	4.26	4.54	5.41
North Carolina	W	W	W	W	W	W	W	W
North Dakota	6.35	6.14	4.36	4.37	4.42	5.52	4.80	6.31
Ohio	2.76	2.91	3.06	3.22	3.28	2.93	3.26	3.84
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	2.03	2.27	2.39	3.00	3.00	2.86	3.21	4.12
Rhode Island	W	W	W	W	W	W	W	W
South Carolina	W	W	W	W	W	W	W	W
South Dakota	--	--	--	--	--	--	--	--
Tennessee	2.86	2.93	3.07	2.96	3.04	3.00	3.09	3.82
Texas	3.03	3.11	3.17	3.29	3.22	3.02	3.13	3.47
Utah	W	W	W	W	W	W	W	W
Vermont	--	--	--	--	--	--	--	--
Virginia	2.94	3.09	3.10	3.59	3.67	W	W	W
Washington	3.62	4.03	5.16	3.85	3.67	3.74	5.57	4.95
West Virginia	W	W	W	W	3.36	W	W	W
Wisconsin	3.16	W	W	W	W	W	W	W
Wyoming	W	W	W	W	W	10.87	W	4.04
Total	3.27	3.32	3.41	3.61	3.50	3.52	3.74	4.33

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2016							
	Total	December	November	October	September	August	July	June
Alabama	W	W	W	W	W	W	W	W
Alaska	6.65	7.21	6.91	6.86	6.52	6.49	6.81	7.10
Arizona	W	W	W	W	W	W	W	W
Arkansas	W	W	W	W	W	W	W	W
California	3.16	4.05	3.22	3.33	3.51	3.39	3.42	2.95
Colorado	W	W	W	W	W	W	W	W
Connecticut	3.67	5.49	3.34	2.45	2.92	3.09	3.13	2.33
Delaware	--	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--	--
Florida	3.86	W	W	W	W	3.95	3.72	3.43
Georgia	3.08	W	3.15	3.59	3.59	3.33	3.30	3.03
Hawaii	--	--	--	--	--	--	--	--
Idaho	2.92	4.05	4.66	4.78	3.38	2.89	2.83	2.47
Illinois	2.88	W	W	3.18	3.29	3.07	3.06	W
Indiana	W	W	W	W	W	W	W	W
Iowa	2.81	3.83	3.02	3.00	3.00	2.94	2.83	2.63
Kansas	3.48	5.05	3.28	3.96	3.52	3.53	3.26	3.07
Kentucky	W	W	W	W	W	W	W	W
Louisiana	2.76	W	W	W	W	W	3.08	2.63
Maine	W	W	--	W	W	W	W	W
Maryland	2.97	4.98	3.67	2.75	2.47	2.97	2.94	3.01
Massachusetts	3.29	6.00	4.05	3.28	3.00	3.24	2.92	2.41
Michigan	2.81	3.93	2.77	3.19	3.32	3.12	3.04	2.75
Minnesota	W	W	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W	W	W
Missouri	W	W	W	W	W	W	W	W
Montana	W	2.40	2.02	W	2.05	1.93	W	1.64
Nebraska	3.31	4.75	3.17	3.54	3.70	3.48	3.41	3.32
Nevada	3.02	3.77	3.35	3.46	3.39	3.23	3.38	2.57
New Hampshire	W	W	W	W	W	W	W	W
New Jersey	2.20	4.01	2.45	1.86	1.70	1.92	2.09	2.13
New Mexico	3.07	4.21	3.06	3.30	3.43	3.30	3.31	2.87
New York	2.76	5.48	2.95	1.98	2.18	2.56	2.73	2.35
North Carolina	W	W	W	W	W	W	W	W
North Dakota	2.69	3.52	2.69	3.05	3.03	2.94	2.84	2.59
Ohio	2.36	3.41	2.33	2.30	2.59	2.55	2.80	2.32
Oklahoma	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W
Pennsylvania	1.94	3.52	2.10	1.29	1.51	1.68	1.86	1.90
Rhode Island	W	W	W	W	W	W	2.92	W
South Carolina	W	W	W	W	W	W	W	W
South Dakota	2.62	3.92	2.50	3.38	3.39	2.94	2.87	2.53
Tennessee	2.61	3.44	2.84	3.15	2.91	2.69	2.74	2.37
Texas	2.67	3.44	2.71	3.24	3.13	2.94	2.95	2.62
Utah	W	W	W	W	W	W	W	W
Vermont	--	--	--	--	--	--	--	--
Virginia	W	W	W	W	W	W	W	W
Washington	W	W	W	W	W	W	W	W
West Virginia	W	5.88	2.84	1.69	1.97	W	3.22	2.00
Wisconsin	W	W	W	W	W	W	W	W
Wyoming	W	11.85	W	11.39	W	W	W	W
Total	2.99	4.15	3.14	3.23	3.18	3.07	3.07	2.77

See footnotes at end of table.

Table 23. Average price of natural gas sold to electric power^a consumers, by state, 2016-2018
(dollars per thousand cubic feet) – continued

State	2016				
	May	April	March	February	January
Alabama	W	W	W	W	W
Alaska	6.43	6.47	6.34	6.43	6.47
Arizona	W	W	W	W	W
Arkansas	W	W	W	W	W
California	W	2.43	2.52	2.80	3.02
Colorado	W	W	W	W	W
Connecticut	2.39	2.74	4.63	5.63	6.12
Delaware	--	--	--	--	--
District of Columbia	--	--	--	--	--
Florida	W	W	W	W	W
Georgia	2.44	2.40	2.23	W	W
Hawaii	--	--	--	--	--
Idaho	2.41	11.72	2.26	2.25	2.67
Illinois	2.25	2.24	2.31	W	W
Indiana	W	W	W	W	W
Iowa	2.10	2.61	2.23	2.57	2.96
Kansas	3.15	3.16	2.84	4.22	4.26
Kentucky	W	W	W	3.35	W
Louisiana	W	W	W	W	W
Maine	W	W	W	W	W
Maryland	2.50	2.40	2.69	5.64	3.59
Massachusetts	2.18	3.05	2.00	3.64	5.75
Michigan	2.28	2.31	2.14	2.37	2.67
Minnesota	W	W	W	W	W
Mississippi	W	W	W	W	W
Missouri	W	W	W	W	W
Montana	1.55	1.47	1.38	1.61	W
Nebraska	2.77	2.44	2.34	2.81	3.52
Nevada	2.54	2.40	2.30	2.78	2.98
New Hampshire	W	W	W	W	W
New Jersey	1.95	1.76	1.62	2.83	3.02
New Mexico	2.47	2.69	2.56	2.57	2.91
New York	2.12	2.37	2.23	3.45	3.82
North Carolina	W	W	W	W	W
North Dakota	2.01	2.05	1.88	2.19	2.41
Ohio	2.03	2.01	1.63	2.00	2.20
Oklahoma	W	W	W	W	W
Oregon	W	W	W	W	W
Pennsylvania	1.65	1.61	1.43	2.33	2.60
Rhode Island	W	W	W	W	W
South Carolina	W	W	W	W	W
South Dakota	2.10	2.07	1.82	2.08	2.57
Tennessee	1.96	1.96	2.05	2.33	2.58
Texas	2.17	2.14	1.91	2.19	2.53
Utah	W	W	W	W	W
Vermont	--	--	--	--	--
Virginia	W	W	W	W	W
Washington	W	W	W	W	W
West Virginia	2.03	2.13	1.93	2.07	2.22
Wisconsin	W	W	W	W	W
Wyoming	W	7.07	W	W	W
Total	2.49	2.52	2.33	2.83	3.18

^a The electric power sector comprises electricity-only (utilities and independent power producers) and combined-heat-and-power plants within the NAICS 22 sector, whose primary business is to sell electricity, or electricity and heat, to the public.

^b Revised data.

-- Not applicable.

^w Withheld.

Notes: Geographic coverage is the 50 states and the District of Columbia. Prices are in nominal dollars.

Sources: U.S. Energy Information Administration (EIA): Form EIA-923, "Power Plant Operations Report."

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2016-2018

State	2018 8-Month YTD			2017 8-Month YTD			2016 8-Month YTD		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	79.8	26.1	100.0	77.2	25.9	100.0	78.6	24.2
Alaska	100.0	98.5	100.0	100.0	98.6	100.0	100.0	98.4	100.0
Arizona	NA	NA	NA	100.0	82.0	13.9	100.0	76.4	15.4
Arkansas	100.0	42.5	NA	100.0	38.2	1.4	100.0	40.3	1.4
California	NA	NA	NA	95.1	53.3	4.1	95.0	51.1	3.9
Colorado	100.0	NA	7.1	100.0	93.6	7.0	100.0	94.2	7.6
Connecticut	NA	77.5	50.6	96.2	76.7	50.4	96.3	76.8	48.6
Delaware	NA	NA	NA	100.0	38.5	0.4	100.0	40.7	0.2
District of Columbia	75.8	NA	0.0	73.7	20.5	--	72.7	19.3	--
Florida	91.7	NA	NA	91.3	30.4	3.3	91.9	30.5	3.4
Georgia	100.0	100.0	NA	100.0	100.0	24.9	100.0	100.0	21.8
Hawaii	100.0	100.0	NA	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	NA	2.9	100.0	76.4	2.7	100.0	73.8	2.4
Illinois	85.7	34.1	NA	85.0	33.5	5.7	86.0	34.3	6.1
Indiana	96.0	66.1	NA	95.6	64.4	1.6	95.7	65.9	1.8
Iowa	100.0	NA	NA	100.0	68.2	2.4	100.0	69.4	3.2
Kansas	100.0	54.0	7.8	100.0	49.6	8.1	100.0	46.9	8.7
Kentucky	96.9	79.6	NA	96.6	77.4	17.3	96.6	78.6	16.6
Louisiana	NA	NA	NA	100.0	79.1	3.5	100.0	78.8	3.2
Maine	100.0	NA	8.8	100.0	60.7	9.1	100.0	58.4	8.2
Maryland	NA	NA	NA	74.3	25.7	4.1	73.1	25.9	4.1
Massachusetts	NA	NA	29.0	98.4	46.5	26.4	99.0	48.2	26.8
Michigan	93.5	NA	NA	93.1	55.3	7.0	92.7	55.0	6.4
Minnesota	NA	NA	NA	100.0	87.9	15.9	100.0	84.2	15.0
Mississippi	99.7	NA	8.5	100.0	83.8	8.9	100.0	84.8	9.5
Missouri	100.0	75.3	14.3	100.0	72.9	12.2	100.0	73.3	12.0
Montana	NA	NA	1.6	99.4	51.6	1.7	99.6	49.4	1.5
Nebraska	NA	56.4	6.2	87.7	56.0	6.4	87.9	60.1	6.5
Nevada	100.0	58.8	13.9	100.0	60.0	14.1	100.0	59.3	12.4
New Hampshire	100.0	56.9	NA	100.0	54.7	4.9	100.0	54.4	6.6
New Jersey	95.2	NA	NA	94.5	44.3	7.0	94.3	38.5	5.5
New Mexico	NA	NA	NA	100.0	56.7	6.6	100.0	57.7	7.5
New York	100.0	100.0	NA	100.0	100.0	6.1	100.0	100.0	6.2
North Carolina	100.0	NA	NA	100.0	81.9	10.9	100.0	83.6	10.7
North Dakota	100.0	NA	36.5	100.0	92.7	37.4	100.0	92.8	28.7
Ohio	100.0	100.0	NA	100.0	100.0	0.9	100.0	100.0	2.1
Oklahoma	100.0	NA	NA	100.0	46.1	7.0	100.0	45.8	8.7
Oregon	100.0	NA	15.5	100.0	94.5	15.3	100.0	94.3	14.2
Pennsylvania	86.6	37.3	NA	87.6	37.5	1.0	87.3	37.5	1.0
Rhode Island	100.0	53.5	NA	100.0	52.5	3.7	100.0	52.6	3.4
South Carolina	100.0	NA	NA	100.0	91.1	40.6	100.0	91.8	41.5
South Dakota	NA	NA	NA	100.0	81.2	3.8	100.0	80.5	4.4
Tennessee	100.0	NA	NA	100.0	87.5	23.7	100.0	88.0	28.4
Texas	NA	73.1	36.0	99.8	70.7	38.7	99.8	71.7	40.8
Utah	100.0	NA	2.9	100.0	73.6	4.5	100.0	77.1	5.9
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	NA	NA	NA	89.3	50.0	9.8	89.5	51.9	9.7
Washington	100.0	NA	NA	100.0	85.8	6.5	100.0	84.4	6.2
West Virginia	NA	55.5	4.1	100.0	50.8	3.8	100.0	52.2	10.1
Wisconsin	100.0	73.0	17.3	100.0	71.5	15.6	100.0	71.2	15.7
Wyoming	70.3	48.8	NA	71.5	49.8	1.7	72.0	50.4	1.9
Total	95.8	65.8	14.3	95.7	65.5	14.6	95.8	65.3	15.0

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2016-2018 – continued

State	2018								
	August			July			June		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	71.9	25.6	100.0	71.1	24.5	100.0	73.7	25.3
Alaska	100.0	95.5	100.0	100.0	95.8	100.0	100.0	96.6	100.0
Arizona	NA	NA	NA	100.0	69.6	12.7	100.0	NA	13.3
Arkansas	100.0	23.5	1.4	100.0	24.3	1.2	100.0	24.8	1.1
California	NA	NA	NA	94.5	49.1	3.3	94.6	50.6	4.0
Colorado	100.0	NA	5.8	100.0	90.3	5.8	100.0	NA	5.1
Connecticut	95.1	71.6	51.6	95.1	72.6	50.1	95.3	72.9	48.6
Delaware	100.0	20.0	0.3	100.0	NA	NA	100.0	NA	NA
District of Columbia	68.5	17.9	0.0	68.9	14.1	0.0	69.0	21.7	0.0
Florida	92.0	NA	3.7	92.6	27.6	3.6	90.9	27.5	NA
Georgia	100.0	100.0	24.7	100.0	100.0	23.4	100.0	100.0	NA
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	59.0	3.1	100.0	58.7	3.0	100.0	NA	3.2
Illinois	85.7	20.1	2.3	85.0	19.0	2.2	84.0	21.7	3.5
Indiana	95.6	54.2	0.7	95.5	52.6	0.7	95.5	52.6	0.7
Iowa	100.0	50.5	2.0	100.0	46.3	2.1	100.0	47.9	1.9
Kansas	100.0	25.3	13.7	100.0	26.8	16.7	100.0	30.2	11.7
Kentucky	97.9	68.0	16.7	97.8	66.6	16.8	97.6	66.2	17.6
Louisiana	100.0	76.1	NA	100.0	75.9	3.3	100.0	76.7	4.0
Maine	100.0	NA	6.4	100.0	NA	6.1	100.0	52.1	7.1
Maryland	72.0	18.7	1.3	73.2	21.6	1.2	73.0	17.9	NA
Massachusetts	97.3	28.6	24.8	97.3	NA	24.6	97.4	NA	22.3
Michigan	94.0	37.1	1.9	94.1	NA	2.8	94.0	39.4	2.5
Minnesota	100.0	75.4	13.5	100.0	74.1	12.7	100.0	76.8	14.1
Mississippi	100.0	77.9	7.3	100.0	77.3	7.7	100.0	78.1	7.5
Missouri	100.0	58.4	9.9	100.0	58.7	8.3	100.0	60.9	9.6
Montana	99.4	31.0	0.8	99.4	37.8	0.7	99.4	41.9	0.7
Nebraska	89.5	39.5	5.2	NA	42.3	5.1	89.0	40.0	5.4
Nevada	100.0	46.9	8.7	100.0	48.6	8.2	100.0	50.6	10.9
New Hampshire	100.0	48.1	2.5	100.0	48.6	3.0	100.0	49.7	NA
New Jersey	95.6	25.9	NA	95.5	NA	5.4	95.5	30.9	NA
New Mexico	NA	NA	NA	99.9	37.6	NA	100.0	NA	NA
New York	100.0	100.0	3.6	100.0	100.0	3.6	100.0	100.0	NA
North Carolina	100.0	NA	8.8	100.0	78.4	8.3	100.0	NA	8.2
North Dakota	100.0	85.3	34.6	100.0	84.5	38.0	100.0	87.2	35.5
Ohio	100.0	100.0	NA	100.0	100.0	NA	100.0	100.0	0.5
Oklahoma	100.0	NA	8.7	100.0	29.0	9.2	100.0	34.0	NA
Oregon	100.0	91.8	13.6	100.0	92.5	13.5	100.0	92.6	14.1
Pennsylvania	87.2	26.7	0.4	87.0	26.2	0.3	86.5	25.9	0.4
Rhode Island	100.0	50.7	4.2	100.0	52.8	3.2	100.0	50.3	3.7
South Carolina	100.0	89.8	38.7	100.0	89.1	38.8	100.0	90.7	40.3
South Dakota	100.0	68.9	1.8	100.0	71.7	1.5	100.0	75.8	1.7
Tennessee	100.0	77.1	22.2	100.0	79.0	20.3	100.0	81.0	21.6
Texas	NA	61.5	35.9	98.5	63.5	34.7	99.2	64.0	35.5
Utah	100.0	55.7	2.3	100.0	55.4	2.9	100.0	66.2	2.9
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	88.5	41.8	10.1	86.5	41.8	9.3	88.6	40.8	NA
Washington	100.0	NA	NA	100.0	76.6	NA	100.0	NA	NA
West Virginia	100.0	29.8	4.0	100.0	31.2	3.9	100.0	30.7	4.5
Wisconsin	100.0	48.0	12.1	100.0	51.5	12.5	100.0	53.2	11.2
Wyoming	72.9	49.0	1.2	73.0	46.7	1.2	73.2	47.1	1.4
Total	95.6	54.9	13.8	95.8	56.1	13.6	95.7	57.6	13.7

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2016-2018 – continued

State	2018								
	May			April			March		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	76.7	25.8	100.0	78.3	26.5	100.0	77.3	26.9
Alaska	100.0	98.0	100.0	100.0	98.9	100.0	100.0	99.1	100.0
Arizona	100.0	NA	12.2	100.0	NA	NA	100.0	NA	11.4
Arkansas	100.0	33.9	1.2	100.0	39.9	1.4	100.0	45.6	1.4
California	94.6	53.8	4.1	94.6	52.1	4.3	94.8	54.8	4.5
Colorado	100.0	NA	6.5	100.0	NA	7.2	100.0	NA	7.8
Connecticut	NA	72.7	49.4	96.2	76.6	52.3	96.4	79.0	48.0
Delaware	100.0	33.2	NA	100.0	41.6	NA	100.0	NA	NA
District of Columbia	75.2	18.9	0.0	76.9	20.2	0.0	75.1	NA	0.0
Florida	90.8	29.0	4.5	90.5	29.6	4.1	90.5	29.5	3.8
Georgia	100.0	100.0	23.2	100.0	100.0	24.2	100.0	100.0	23.0
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	61.2	2.8	100.0	74.8	3.0	100.0	80.0	2.6
Illinois	77.4	21.5	6.1	85.4	34.5	8.5	86.6	37.6	8.9
Indiana	95.1	51.9	1.0	95.9	66.5	1.9	96.0	69.5	1.9
Iowa	100.0	52.3	2.3	100.0	67.5	2.3	100.0	69.3	2.9
Kansas	100.0	34.8	9.5	100.0	54.6	5.6	100.0	57.0	4.3
Kentucky	95.3	69.6	16.3	96.4	78.8	15.7	97.4	81.5	16.4
Louisiana	100.0	78.9	3.6	100.0	78.7	4.4	NA	NA	3.6
Maine	100.0	57.7	8.2	100.0	61.8	10.3	100.0	63.6	10.4
Maryland	NA	NA	1.8	76.1	24.8	NA	76.0	32.4	NA
Massachusetts	NA	NA	30.1	NA	NA	27.9	NA	NA	30.6
Michigan	90.2	41.7	4.5	93.4	62.0	7.9	93.8	60.5	8.5
Minnesota	NA	NA	NA	100.0	88.9	18.0	NA	NA	22.1
Mississippi	100.0	80.4	7.5	100.0	83.0	8.4	100.0	NA	8.4
Missouri	100.0	67.7	12.2	100.0	75.4	16.4	100.0	75.9	14.7
Montana	99.5	49.0	1.2	99.5	51.4	2.0	NA	NA	2.4
Nebraska	87.5	50.2	6.5	88.3	58.7	6.3	88.4	60.6	6.7
Nevada	100.0	53.1	13.8	100.0	57.5	15.3	100.0	64.9	17.6
New Hampshire	100.0	53.6	6.0	100.0	56.8	NA	100.0	58.2	NA
New Jersey	95.4	32.8	NA	95.3	38.8	NA	95.5	47.2	NA
New Mexico	NA	NA	NA	100.0	NA	NA	100.0	61.3	4.4
New York	100.0	100.0	5.6	100.0	100.0	7.2	100.0	100.0	7.5
North Carolina	100.0	80.3	9.2	100.0	82.7	11.5	100.0	89.0	12.4
North Dakota	100.0	NA	29.5	100.0	92.9	40.9	100.0	NA	35.1
Ohio	100.0	100.0	0.6	100.0	100.0	1.2	100.0	100.0	1.1
Oklahoma	100.0	46.3	7.8	100.0	45.6	7.5	100.0	54.3	7.6
Oregon	100.0	92.2	14.2	100.0	93.8	16.1	100.0	94.8	16.7
Pennsylvania	84.7	31.3	0.8	85.8	35.7	1.4	87.5	40.6	1.7
Rhode Island	100.0	47.6	3.6	100.0	52.1	NA	100.0	54.0	3.8
South Carolina	100.0	89.7	41.7	100.0	89.9	41.5	100.0	92.4	NA
South Dakota	100.0	NA	3.6	100.0	83.2	NA	NA	NA	6.0
Tennessee	100.0	84.3	24.2	100.0	88.9	23.4	100.0	NA	25.6
Texas	99.4	66.9	35.1	99.7	70.5	36.7	99.9	75.9	38.6
Utah	100.0	NA	3.0	100.0	70.0	3.2	100.0	74.7	3.1
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	86.0	38.7	8.5	89.0	49.4	11.5	91.8	58.6	12.5
Washington	100.0	79.5	4.6	100.0	NA	6.6	100.0	87.3	NA
West Virginia	NA	36.0	4.7	100.0	57.3	4.5	100.0	65.3	4.0
Wisconsin	100.0	61.5	15.4	100.0	74.1	20.0	100.0	75.8	19.0
Wyoming	72.0	48.0	NA	71.2	49.5	1.7	70.2	49.8	1.9
Total	94.8	59.7	13.8	95.6	65.2	14.8	95.9	68.4	15.0

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2016-2018 – continued

State	2018						2017		
	February			January			Total		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	86.6	26.6	100.0	83.4	27.2	100.0	75.8	26.2
Alaska	100.0	99.3	100.0	100.0	99.2	100.0	100.0	98.4	100.0
Arizona	100.0	NA	12.9	100.0	NA	12.6	100.0	81.1	13.8
Arkansas	100.0	54.5	2.1	100.0	54.9	NA	100.0	36.0	1.4
California	95.4	55.2	5.2	95.2	54.0	4.2	95.1	52.4	4.2
Colorado	100.0	NA	8.4	100.0	NA	8.3	100.0	94.0	7.2
Connecticut	96.4	80.5	52.0	96.9	80.8	52.2	96.2	76.6	50.4
Delaware	100.0	49.0	NA	NA	NA	0.4	100.0	36.1	0.3
District of Columbia	77.4	22.3	0.0	76.9	NA	0.0	73.9	20.1	--
Florida	92.4	31.7	5.1	92.6	32.7	3.8	91.3	30.4	3.4
Georgia	100.0	100.0	24.2	100.0	100.0	25.6	100.0	100.0	24.9
Hawaii	100.0	100.0	100.0	100.0	100.0	NA	100.0	100.0	100.0
Idaho	100.0	NA	2.7	100.0	82.6	2.7	100.0	76.9	2.8
Illinois	86.0	38.5	NA	87.0	40.9	10.5	86.8	34.1	6.0
Indiana	95.9	68.9	2.6	96.3	70.1	NA	95.8	66.1	1.6
Iowa	100.0	NA	NA	100.0	70.8	2.8	100.0	68.5	3.0
Kansas	100.0	65.6	1.3	100.0	68.2	1.0	100.0	49.0	7.0
Kentucky	96.6	83.1	NA	96.9	84.0	16.1	97.1	78.0	17.0
Louisiana	100.0	84.1	4.3	100.0	83.3	NA	100.0	78.5	3.5
Maine	100.0	NA	10.1	100.0	67.7	10.7	100.0	59.3	9.0
Maryland	74.6	29.8	NA	76.4	34.5	6.3	74.9	25.7	4.0
Massachusetts	NA	NA	30.9	NA	NA	33.4	98.3	46.1	26.4
Michigan	93.6	61.4	NA	93.6	63.3	11.1	93.4	56.2	6.7
Minnesota	100.0	90.6	22.1	100.0	91.1	20.9	100.0	88.1	17.1
Mississippi	100.0	88.1	11.2	99.1	90.6	10.1	100.0	83.8	8.9
Missouri	100.0	79.2	18.8	100.0	82.1	18.9	100.0	71.7	12.1
Montana	99.5	50.9	2.5	99.5	55.5	2.1	99.4	49.7	1.4
Nebraska	88.1	60.0	7.2	88.6	61.5	7.1	87.5	55.1	6.1
Nevada	100.0	64.3	18.3	100.0	66.8	17.9	100.0	59.1	14.5
New Hampshire	100.0	58.6	NA	100.0	59.1	NA	100.0	54.0	4.9
New Jersey	95.1	41.9	NA	95.0	49.8	NA	94.7	42.7	6.6
New Mexico	100.0	65.3	3.8	100.0	60.1	3.2	100.0	54.0	6.6
New York	100.0	100.0	8.4	100.0	100.0	8.4	100.0	100.0	5.7
North Carolina	100.0	84.2	15.1	100.0	92.4	NA	100.0	83.6	10.8
North Dakota	100.0	94.2	39.0	100.0	94.7	38.3	100.0	92.7	35.0
Ohio	100.0	100.0	NA	100.0	100.0	NA	100.0	100.0	0.9
Oklahoma	100.0	52.5	7.5	100.0	54.5	8.0	100.0	42.2	7.0
Oregon	100.0	NA	17.8	100.0	95.1	16.9	100.0	94.5	15.5
Pennsylvania	86.2	38.9	NA	86.8	41.8	2.6	87.7	37.4	0.9
Rhode Island	100.0	53.7	4.1	100.0	57.2	4.2	100.0	52.8	3.7
South Carolina	100.0	92.4	43.4	100.0	NA	38.1	100.0	91.3	40.4
South Dakota	100.0	83.6	5.7	100.0	84.1	5.8	100.0	80.9	4.1
Tennessee	100.0	93.1	25.8	100.0	93.4	NA	100.0	87.3	24.0
Texas	100.0	78.4	35.4	NA	82.1	36.3	99.8	70.2	38.4
Utah	100.0	73.0	2.8	100.0	77.2	3.0	100.0	72.6	4.1
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	90.4	52.8	11.3	NA	NA	14.9	90.0	51.3	9.8
Washington	100.0	83.9	7.3	100.0	87.8	7.7	100.0	86.4	6.4
West Virginia	100.0	63.0	4.0	100.0	66.5	3.6	100.0	51.8	3.8
Wisconsin	100.0	78.6	20.2	100.0	80.1	21.8	100.0	71.9	16.2
Wyoming	69.2	48.9	2.6	69.2	48.4	2.1	71.9	50.7	1.7
Total	96.0	69.0	14.6	96.1	71.2	14.9	95.9	65.4	14.5

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2016-2018 – continued

State	2017								
	December			November			October		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	76.3	26.5	100.0	72.1	26.9	100.0	68.7	27.6
Alaska	100.0	99.3	100.0	100.0	98.7	100.0	100.0	96.7	100.0
Arizona	100.0	80.7	13.5	100.0	78.8	14.2	100.0	77.6	13.0
Arkansas	100.0	39.2	1.8	100.0	30.7	1.6	100.0	25.3	1.2
California	95.4	54.6	4.6	95.3	51.0	4.0	95.0	48.3	4.5
Colorado	100.0	95.7	8.7	100.0	94.9	8.0	100.0	94.2	6.2
Connecticut	96.6	78.9	52.8	95.5	76.5	49.6	95.1	72.9	49.1
Delaware	100.0	36.7	0.3	100.0	30.2	0.2	100.0	23.4	0.2
District of Columbia	75.4	21.3	--	74.7	19.1	--	71.7	16.2	--
Florida	91.3	32.8	3.6	90.2	30.6	3.8	91.9	27.7	3.1
Georgia	100.0	100.0	23.8	100.0	100.0	23.1	100.0	100.0	26.5
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	84.7	3.4	100.0	77.5	2.6	100.0	72.7	2.5
Illinois	91.9	37.8	9.5	87.6	36.2	6.9	90.3	34.3	4.7
Indiana	96.1	72.0	2.4	95.9	67.7	2.2	95.7	67.6	1.2
Iowa	100.0	72.2	4.9	100.0	70.3	5.4	100.0	67.6	2.9
Kansas	100.0	55.4	1.8	100.0	54.0	2.6	100.0	37.2	2.7
Kentucky	97.6	83.5	15.7	98.0	78.7	15.6	98.8	72.8	17.5
Louisiana	100.0	78.3	3.5	100.0	75.3	4.0	100.0	76.2	3.5
Maine	100.0	63.2	10.6	100.0	53.2	9.2	100.0	45.6	7.6
Maryland	76.2	28.7	6.0	78.1	28.8	3.8	73.4	21.0	2.6
Massachusetts	98.0	53.2	30.3	98.2	45.3	25.0	97.9	35.1	24.8
Michigan	93.9	63.0	10.4	93.9	58.6	5.2	93.9	52.8	4.0
Minnesota	100.0	90.7	23.5	100.0	89.6	23.2	100.0	87.6	16.7
Mississippi	100.0	87.1	8.4	100.0	82.6	9.4	100.0	82.6	9.3
Missouri	100.0	73.5	13.4	100.0	70.3	12.4	100.0	60.4	10.2
Montana	99.5	48.4	1.2	99.5	47.3	1.3	99.5	44.1	0.9
Nebraska	87.5	57.8	6.0	86.5	53.6	5.7	84.4	46.6	4.7
Nevada	100.0	64.8	19.1	100.0	57.9	16.0	100.0	50.9	14.2
New Hampshire	100.0	55.6	7.7	100.0	49.9	4.9	100.0	46.4	3.2
New Jersey	95.1	46.5	10.7	95.1	42.0	6.2	94.8	33.8	2.2
New Mexico	100.0	51.3	4.1	100.0	47.3	7.6	99.9	43.2	8.5
New York	100.0	100.0	6.6	100.0	100.0	4.3	100.0	100.0	4.2
North Carolina	100.0	89.8	12.4	100.0	87.0	10.7	100.0	84.5	9.8
North Dakota	100.0	94.1	42.3	100.0	93.7	28.3	100.0	89.9	30.9
Ohio	100.0	100.0	1.4	100.0	100.0	0.9	100.0	100.0	0.5
Oklahoma	100.0	38.0	8.1	100.0	34.6	5.8	100.0	24.8	5.9
Oregon	100.0	95.6	17.1	100.0	94.7	16.3	100.0	93.6	15.5
Pennsylvania	87.9	42.7	1.2	88.4	35.4	0.7	88.0	31.7	0.4
Rhode Island	100.0	54.1	3.8	100.0	53.9	3.8	100.0	51.5	3.6
South Carolina	100.0	93.4	38.1	100.0	91.6	42.0	100.0	90.7	40.0
South Dakota	100.0	83.2	8.0	100.0	81.3	5.5	100.0	77.2	2.3
Tennessee	100.0	90.4	23.6	100.0	86.8	26.7	100.0	82.5	25.6
Texas	99.7	73.5	37.6	99.7	70.4	37.5	99.7	65.9	37.8
Utah	100.0	75.5	3.0	100.0	68.0	3.4	100.0	67.8	3.4
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	92.1	61.8	11.9	92.2	54.9	10.3	90.5	47.1	8.3
Washington	100.0	89.7	7.4	100.0	88.3	6.6	100.0	86.3	5.7
West Virginia	100.0	64.3	3.6	100.0	54.6	4.1	100.0	36.6	3.8
Wisconsin	100.0	78.3	22.2	100.0	75.0	18.1	100.0	63.6	15.0
Wyoming	72.9	52.6	1.9	72.3	52.7	2.0	72.7	52.8	1.5
Total	96.5	69.1	15.0	96.0	65.8	14.5	96.4	61.5	14.2

See footnotes at end of table.

Table 24. Percentage of total deliveries included in residential, commercial, and industrial prices, by state, 2016-2018 – continued

State	2017								
	September			August			July		
	Residential	Commercial	Industrial	Residential	Commercial	Industrial	Residential	Commercial	Industrial
Alabama	100.0	71.3	26.6	100.0	70.8	25.2	100.0	72.4	25.0
Alaska	100.0	96.4	100.0	100.0	96.4	100.0	100.0	97.5	100.0
Arizona	100.0	77.9	14.3	100.0	72.5	11.9	100.0	79.9	14.2
Arkansas	100.0	25.5	1.4	100.0	24.3	1.3	100.0	23.4	1.4
California	95.1	47.4	3.9	94.5	46.8	3.9	95.1	48.4	3.5
Colorado	100.0	91.1	6.2	100.0	91.5	5.5	100.0	91.0	5.4
Connecticut	95.5	73.5	49.6	95.4	72.2	47.2	95.2	73.0	50.0
Delaware	100.0	24.6	0.1	100.0	23.0	0.1	100.0	26.1	0.1
District of Columbia	71.0	16.6	--	73.0	16.9	--	67.9	16.6	--
Florida	93.0	30.5	3.7	92.4	27.3	3.2	92.4	29.6	3.1
Georgia	100.0	100.0	26.0	100.0	100.0	24.3	100.0	100.0	25.6
Hawaii	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Idaho	100.0	64.2	2.5	100.0	63.0	2.9	100.0	54.3	2.6
Illinois	86.4	21.3	2.7	82.7	20.6	2.8	85.8	23.8	2.4
Indiana	95.7	56.5	0.9	95.1	53.1	0.9	95.4	55.0	0.7
Iowa	100.0	54.0	2.3	100.0	54.8	1.7	100.0	51.8	1.9
Kansas	100.0	26.8	11.9	100.0	27.7	17.2	100.0	27.4	18.8
Kentucky	97.6	69.1	16.9	97.7	64.8	16.7	97.5	68.2	17.1
Louisiana	100.0	78.7	3.5	100.0	76.9	3.3	100.0	76.3	3.5
Maine	100.0	45.0	6.8	100.0	43.6	7.2	100.0	43.2	6.4
Maryland	73.6	17.0	1.6	72.4	16.4	2.0	70.1	17.0	1.4
Massachusetts	97.9	28.0	22.2	97.9	29.0	21.9	98.0	29.8	22.2
Michigan	93.9	38.9	2.9	93.4	36.2	2.3	92.5	36.8	2.7
Minnesota	100.0	75.5	12.8	100.0	71.0	12.2	100.0	76.7	14.8
Mississippi	100.0	80.3	8.6	100.0	81.3	7.9	100.0	80.5	8.8
Missouri	100.0	61.3	10.9	100.0	58.6	8.9	100.0	60.9	9.2
Montana	99.5	37.9	0.8	99.4	37.2	0.9	99.3	40.0	0.7
Nebraska	88.9	43.9	4.9	89.3	42.4	4.6	89.2	42.8	4.8
Nevada	100.0	48.8	10.6	100.0	47.1	8.5	100.0	49.3	9.8
New Hampshire	100.0	45.5	2.7	100.0	46.6	3.0	100.0	46.6	2.2
New Jersey	94.7	20.4	2.5	94.9	29.0	2.2	94.1	28.0	2.7
New Mexico	99.9	46.6	7.4	99.9	46.7	10.0	99.9	48.2	9.9
New York	100.0	100.0	4.1	100.0	100.0	4.6	100.0	100.0	3.7
North Carolina	100.0	76.6	9.7	100.0	75.9	8.7	100.0	76.2	8.8
North Dakota	100.0	88.2	8.9	100.0	86.7	33.7	100.0	84.3	32.8
Ohio	100.0	100.0	0.4	100.0	100.0	0.5	100.0	100.0	0.3
Oklahoma	100.0	30.1	7.4	100.0	29.2	5.0	100.0	31.8	5.0
Oregon	100.0	92.2	14.8	100.0	92.5	13.3	100.0	92.7	13.4
Pennsylvania	87.9	28.9	0.3	87.8	29.0	0.3	87.6	27.6	0.3
Rhode Island	100.0	53.5	3.2	100.0	54.4	3.1	100.0	50.7	3.4
South Carolina	100.0	89.3	40.3	100.0	89.6	40.4	100.0	90.4	38.5
South Dakota	100.0	71.2	1.6	100.0	68.0	1.8	100.0	73.1	2.1
Tennessee	100.0	80.4	22.7	100.0	79.2	23.0	100.0	80.7	21.8
Texas	99.8	64.1	38.5	99.8	62.8	39.6	99.8	63.4	39.3
Utah	100.0	58.4	3.7	100.0	55.2	4.0	100.0	60.1	4.8
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	86.7	38.6	7.6	87.7	40.8	7.3	86.1	39.5	7.8
Washington	100.0	81.5	5.3	100.0	78.0	3.9	100.0	79.8	4.3
West Virginia	100.0	36.2	3.4	100.0	30.0	4.1	100.0	30.6	2.9
Wisconsin	100.0	52.2	10.6	100.0	52.4	11.1	100.0	52.9	13.3
Wyoming	74.9	53.5	1.8	72.7	49.6	1.3	71.7	52.3	1.5
Total	96.1	56.2	13.7	95.6	55.9	14.2	95.8	57.2	14.6

^R Revised data.

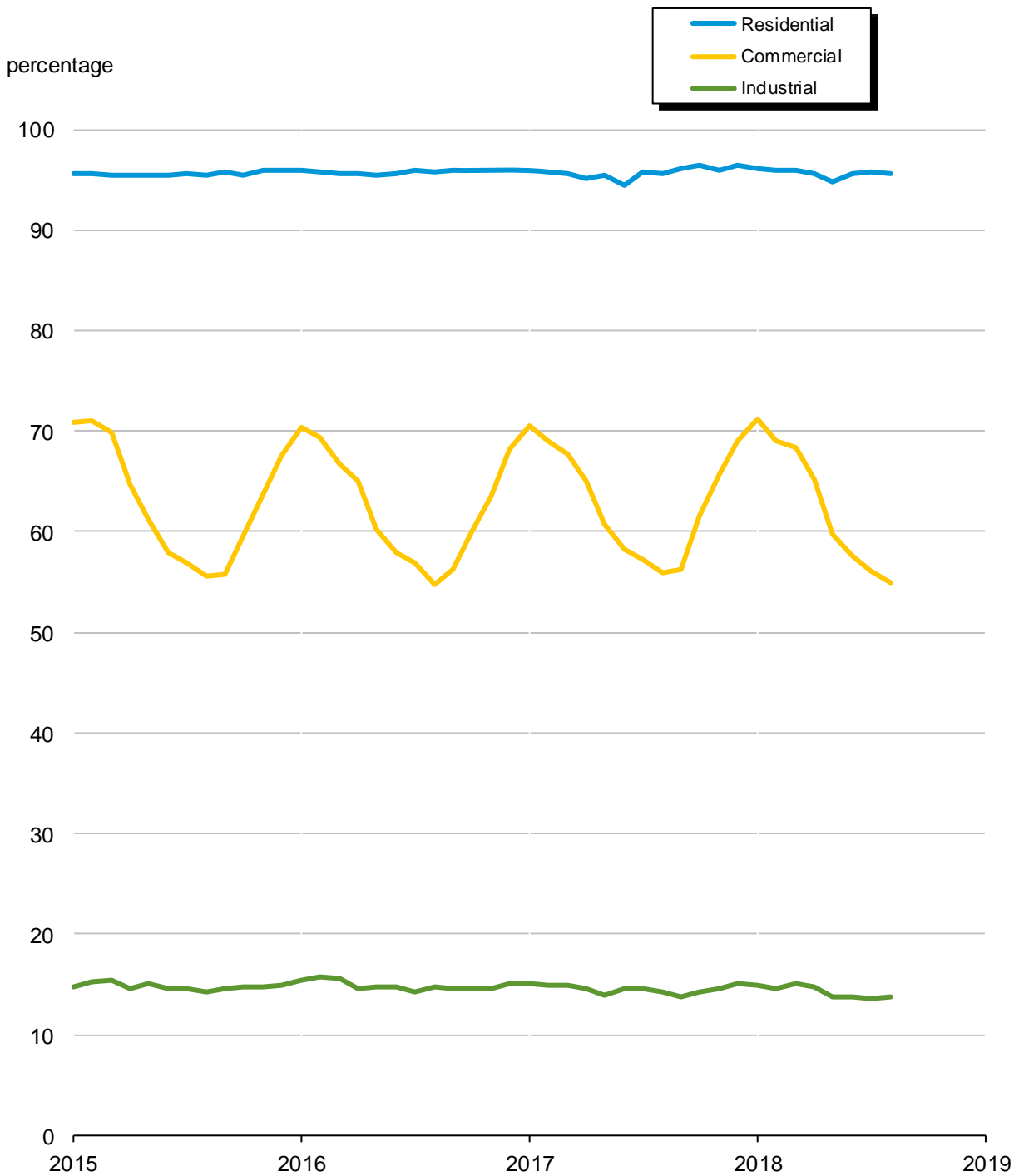
-- Not applicable.

^{NA} Not available.

Notes: Volumes of natural gas reported for the residential, commercial, and industrial sectors in this publication include data for both sales and deliveries for the account of others. This table shows the percentage of the total state volume that represents natural gas sales to the residential, commercial, and industrial sectors. This information may be helpful in evaluating residential, commercial, and industrial price data which are based on sales data only. Residential and commercial price data are based on total gas deliveries in the states of Georgia, New York and Ohio only. See Appendix C, Statistical Considerations, for a discussion of the computation of natural gas prices.

Sources: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-910, "Monthly Natural Gas Marketer Survey."

Figure 6. Percentage of total deliveries included in residential, commercial, and industrial price estimates, 2015-2018



Sources: Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-910, "Monthly Natural Gas Marketer Survey."

Table 25. Heating value of natural gas consumed, by state, 2016-2018
(Btu per cubic foot)

State	2018	2017	2016	2018				
	8-Month YTD	8-Month YTD	8-Month YTD	August	July	June	May	April
Alabama	1,027	1,030	1,029	1,026	1,024	1,027	1,028	1,027
Alaska	975	991	1,001	937	956	953	980	987
Arizona	1,041	1,039	1,038	1,042	1,041	1,041	1,037	1,035
Arkansas	1,018	1,024	1,024	1,015	1,018	1,017	1,018	1,016
California	1,034	1,035	1,035	1,035	1,035	1,034	1,033	1,031
Colorado	1,075	1,065	1,061	1,091	1,089	1,089	1,081	1,071
Connecticut	1,028	1,026	1,026	1,027	1,027	1,027	1,027	1,029
Delaware	1,040	1,039	1,042	1,037	1,038	1,043	1,035	1,037
District of Columbia	1,039	1,042	1,044	1,027	1,031	1,029	1,027	1,038
Florida	1,023	1,024	1,022	1,021	1,026	1,021	1,023	1,023
Georgia	1,028	1,032	1,029	1,029	1,026	1,028	1,028	1,027
Hawaii	963	972	997	932	961	956	974	974
Idaho	1,040	1,038	1,033	1,020	1,037	1,029	1,058	1,053
Illinois	1,030	1,031	1,032	1,024	1,027	1,026	1,029	1,032
Indiana	1,046	1,043	1,037	1,052	1,051	1,054	1,048	1,042
Iowa	1,060	1,053	1,054	1,069	1,075	1,066	1,061	1,055
Kansas	1,039	1,038	1,035	1,040	1,041	1,048	1,041	1,036
Kentucky	1,051	1,036	1,030	1,046	1,047	1,044	1,046	1,061
Louisiana	1,022	1,030	1,032	1,023	1,022	1,022	1,023	1,019
Maine	1,042	1,027	1,027	1,045	1,047	1,047	1,041	1,042
Maryland	1,044	1,050	1,052	1,034	1,040	1,038	1,041	1,045
Massachusetts	1,031	1,031	1,030	1,030	1,030	1,029	1,029	1,029
Michigan	1,047	1,042	1,040	1,049	1,053	1,053	1,044	1,046
Minnesota	1,043	1,030	1,041	1,060	1,065	1,052	1,040	1,039
Mississippi	1,025	1,034	1,031	1,026	1,026	1,025	1,030	1,025
Missouri	1,025	1,022	1,024	1,028	1,030	1,031	1,027	1,021
Montana	1,047	1,032	1,029	1,055	1,056	1,051	1,048	1,045
Nebraska	1,056	1,058	1,054	1,073	1,072	1,062	1,059	1,053
Nevada	1,038	1,040	1,041	1,037	1,041	1,041	1,041	1,037
New Hampshire	1,031	1,030	1,030	1,029	1,030	1,030	1,028	1,032
New Jersey	1,038	1,040	1,041	1,035	1,035	1,034	1,034	1,039
New Mexico	1,036	1,043	1,049	1,040	1,040	1,042	1,034	1,032
New York	1,031	1,032	1,032	1,030	1,030	1,029	1,029	1,031
North Carolina	1,027	1,037	1,035	1,024	1,026	1,029	1,030	1,025
North Dakota	1,080	1,051	1,064	1,076	1,072	1,076	1,087	1,078
Ohio	1,064	1,069	1,070	1,063	1,061	1,060	1,061	1,065
Oklahoma	1,033	1,044	1,048	1,028	1,029	1,031	1,033	1,032
Oregon	1,069	1,052	1,040	1,059	1,066	1,080	1,080	1,080
Pennsylvania	1,038	1,039	1,042	1,035	1,036	1,036	1,037	1,037
Rhode Island	1,029	1,030	1,029	1,028	1,028	1,028	1,028	1,029
South Carolina	1,027	1,030	1,030	1,024	1,024	1,027	1,028	1,029
South Dakota	1,062	1,053	1,057	1,083	1,065	1,063	1,055	1,058
Tennessee	1,024	1,027	1,029	1,019	1,019	1,022	1,023	1,028
Texas	1,026	1,029	1,031	1,027	1,026	1,027	1,026	1,024
Utah	1,040	1,042	1,042	1,039	1,035	1,040	1,042	1,043
Vermont	1,033	1,030	1,027	1,025	1,030	1,033	1,026	1,034
Virginia	1,050	1,051	1,054	1,050	1,046	1,051	1,048	1,050
Washington	1,089	1,080	1,078	1,091	1,092	1,088	1,088	1,090
West Virginia	1,093	1,083	1,092	1,097	1,101	1,100	1,106	1,091
Wisconsin	1,036	1,033	1,036	1,028	1,034	1,039	1,032	1,040
Wyoming	1,058	1,065	1,070	1,066	1,053	1,057	1,058	1,057
Total	1,036	1,036	1,036	1,034	1,035	1,035	1,034	1,035

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2016-2018
(Btu per cubic foot) – continued

State	2018				2017			
	March	February	January	Total	December	November	October	September
Alabama	1,028	1,026	1,026	1,030	1,027	1,029	1,030	1,031
Alaska	982	991	995	989	992	996	983	980
Arizona	1,043	1,041	1,045	1,041	1,042	1,040	1,039	1,047
Arkansas	1,017	1,019	1,016	1,019	1,014	1,014	1,021	1,020
California	1,032	1,034	1,036	1,035	1,034	1,033	1,032	1,036
Colorado	1,072	1,064	1,066	1,065	1,065	1,061	1,069	1,067
Connecticut	1,029	1,029	1,030	1,028	1,029	1,029	1,026	1,026
Delaware	1,043	1,043	1,044	1,042	1,047	1,044	1,042	1,042
District of Columbia	1,044	1,042	1,047	1,039	1,045	1,041	1,033	1,034
Florida	1,024	1,023	1,024	1,024	1,022	1,020	1,021	1,022
Georgia	1,029	1,028	1,028	1,030	1,026	1,026	1,028	1,032
Hawaii	973	971	965	975	989	969	984	978
Idaho	1,040	1,039	1,045	1,041	1,038	1,031	1,030	1,037
Illinois	1,031	1,033	1,032	1,029	1,031	1,032	1,030	1,027
Indiana	1,043	1,039	1,041	1,043	1,043	1,050	1,049	1,049
Iowa	1,051	1,054	1,054	1,056	1,059	1,058	1,060	1,061
Kansas	1,037	1,036	1,037	1,034	1,032	1,038	1,034	1,037
Kentucky	1,055	1,051	1,054	1,046	1,055	1,056	1,060	1,051
Louisiana	1,021	1,021	1,022	1,022	1,021	1,020	1,023	1,025
Maine	1,044	1,035	1,035	1,030	1,031	1,030	1,022	1,017
Maryland	1,052	1,043	1,051	1,047	1,048	1,038	1,042	1,045
Massachusetts	1,032	1,032	1,033	1,030	1,031	1,030	1,030	1,030
Michigan	1,047	1,046	1,044	1,043	1,044	1,043	1,042	1,043
Minnesota	1,037	1,038	1,037	1,033	1,039	1,038	1,032	1,029
Mississippi	1,024	1,024	1,024	1,032	1,026	1,027	1,027	1,031
Missouri	1,023	1,023	1,023	1,010	1,021	1,021	1,022	1,020
Montana	1,047	1,043	1,044	1,041	1,052	1,045	1,052	1,042
Nebraska	1,053	1,043	1,052	1,061	1,059	1,054	1,065	1,071
Nevada	1,036	1,036	1,038	1,039	1,039	1,030	1,035	1,038
New Hampshire	1,033	1,033	1,036	1,030	1,033	1,031	1,029	1,028
New Jersey	1,040	1,039	1,042	1,039	1,042	1,042	1,036	1,039
New Mexico	1,031	1,035	1,040	1,042	1,042	1,042	1,041	1,046
New York	1,033	1,032	1,033	1,032	1,034	1,033	1,031	1,031
North Carolina	1,027	1,028	1,029	1,036	1,026	1,032	1,040	1,038
North Dakota	1,080	1,074	1,098	1,080	1,104	1,086	1,094	1,100
Ohio	1,065	1,064	1,068	1,070	1,074	1,071	1,076	1,070
Oklahoma	1,035	1,039	1,041	1,042	1,037	1,036	1,036	1,051
Oregon	1,070	1,070	1,063	1,062	1,059	1,062	1,059	1,058
Pennsylvania	1,039	1,039	1,041	1,040	1,042	1,041	1,039	1,039
Rhode Island	1,029	1,029	1,029	1,029	1,029	1,029	1,030	1,030
South Carolina	1,029	1,029	1,029	1,031	1,028	1,029	1,031	1,032
South Dakota	1,057	1,061	1,063	1,055	1,067	1,058	1,056	1,055
Tennessee	1,028	1,027	1,025	1,031	1,031	1,030	1,027	1,026
Texas	1,025	1,024	1,026	1,029	1,029	1,027	1,028	1,034
Utah	1,034	1,042	1,044	1,042	1,043	1,042	1,041	1,041
Vermont	1,036	1,035	1,036	1,030	1,033	1,033	1,026	1,021
Virginia	1,056	1,049	1,053	1,053	1,057	1,052	1,051	1,050
Washington	1,090	1,086	1,085	1,080	1,084	1,084	1,082	1,075
West Virginia	1,085	1,086	1,091	1,083	1,073	1,086	1,081	1,087
Wisconsin	1,039	1,035	1,040	1,035	1,035	1,039	1,034	1,027
Wyoming	1,057	1,060	1,054	1,060	1,052	1,047	1,049	1,050
Total	1,037	1,037	1,038	1,036	1,039	1,037	1,035	1,036

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2016-2018
(Btu per cubic foot) – continued

State	2017							
	August	July	June	May	April	March	February	January
Alabama	1,030	1,031	1,030	1,031	1,030	1,028	1,029	1,028
Alaska	964	974	988	995	994	996	1,000	1,000
Arizona	1,040	1,039	1,037	1,038	1,038	1,040	1,043	1,042
Arkansas	1,018	1,017	1,019	1,016	1,022	1,017	1,019	1,018
California	1,036	1,037	1,037	1,033	1,033	1,034	1,034	1,036
Colorado	1,074	1,072	1,069	1,065	1,063	1,062	1,060	1,060
Connecticut	1,026	1,026	1,025	1,025	1,025	1,026	1,026	1,026
Delaware	1,040	1,038	1,037	1,037	1,041	1,045	1,045	1,047
District of Columbia	1,034	1,030	1,029	1,034	1,035	1,047	1,049	1,051
Florida	1,025	1,024	1,023	1,024	1,023	1,023	1,025	1,024
Georgia	1,030	1,032	1,032	1,033	1,030	1,029	1,033	1,030
Hawaii	983	987	987	984	959	954	972	955
Idaho	1,034	1,035	1,069	1,044	1,051	1,037	1,036	1,036
Illinois	1,027	1,027	1,027	1,028	1,030	1,030	1,031	1,033
Indiana	1,050	1,049	1,044	1,042	1,036	1,034	1,034	1,038
Iowa	1,059	1,058	1,056	1,057	1,055	1,052	1,052	1,052
Kansas	1,034	1,034	1,033	1,035	1,041	1,037	1,036	1,042
Kentucky	1,042	1,040	1,043	1,028	1,030	1,035	1,035	1,037
Louisiana	1,022	1,022	1,020	1,022	1,023	1,022	1,022	1,023
Maine	1,018	1,017	1,021	1,022	1,026	1,036	1,049	1,037
Maryland	1,047	1,044	1,041	1,046	1,043	1,055	1,056	1,054
Massachusetts	1,031	1,032	1,030	1,030	1,029	1,031	1,031	1,031
Michigan	1,043	1,042	1,042	1,043	1,039	1,042	1,045	1,045
Minnesota	1,027	1,030	1,028	1,034	1,032	1,033	1,028	1,028
Mississippi	1,030	1,035	1,035	1,032	1,032	1,035	1,035	1,034
Missouri	1,021	1,018	1,020	1,021	1,022	1,021	1,022	1,022
Montana	1,048	1,045	1,040	1,026	1,032	1,036	1,034	1,036
Nebraska	1,069	1,070	1,066	1,063	1,061	1,058	1,060	1,057
Nevada	1,039	1,043	1,044	1,035	1,039	1,039	1,040	1,041
New Hampshire	1,028	1,026	1,030	1,029	1,028	1,032	1,036	1,032
New Jersey	1,038	1,036	1,036	1,037	1,038	1,043	1,042	1,043
New Mexico	1,045	1,043	1,040	1,042	1,040	1,042	1,043	1,045
New York	1,031	1,030	1,031	1,031	1,032	1,033	1,033	1,033
North Carolina	1,036	1,037	1,038	1,040	1,045	1,033	1,032	1,033
North Dakota	1,083	1,085	1,085	1,080	1,080	1,078	1,083	1,076
Ohio	1,069	1,067	1,068	1,068	1,069	1,072	1,071	1,071
Oklahoma	1,043	1,043	1,044	1,041	1,042	1,041	1,043	1,046
Oregon	1,067	1,073	1,086	1,079	1,076	1,035	1,035	1,036
Pennsylvania	1,038	1,038	1,038	1,038	1,038	1,040	1,040	1,041
Rhode Island	1,030	1,030	1,030	1,029	1,029	1,029	1,029	1,029
South Carolina	1,030	1,030	1,030	1,032	1,031	1,030	1,031	1,030
South Dakota	1,054	1,054	1,050	1,051	1,049	1,050	1,051	1,055
Tennessee	1,029	1,030	1,032	1,032	1,029	1,028	1,031	1,032
Texas	1,030	1,030	1,028	1,029	1,030	1,026	1,029	1,027
Utah	1,039	1,041	1,041	1,042	1,042	1,043	1,043	1,043
Vermont	1,022	1,020	1,026	1,024	1,025	1,033	1,036	1,034
Virginia	1,051	1,051	1,052	1,051	1,055	1,057	1,052	1,057
Washington	1,083	1,091	1,082	1,077	1,080	1,078	1,075	1,076
West Virginia	1,055	1,092	1,105	1,094	1,103	1,086	1,089	1,084
Wisconsin	1,027	1,026	1,029	1,036	1,034	1,035	1,038	1,041
Wyoming	1,058	1,055	1,053	1,052	1,051	1,055	1,066	1,060
Total	1,035	1,035	1,035	1,035	1,036	1,037	1,038	1,039

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2016-2018
(Btu per cubic foot) – continued

State	2016							
	Total	December	November	October	September	August	July	June
Alabama	1,029	1,030	1,030	1,031	1,032	1,031	1,029	1,026
Alaska	1,001	1,000	1,000	1,001	1,002	1,003	1,003	1,003
Arizona	1,037	1,039	1,034	1,031	1,034	1,035	1,031	1,031
Arkansas	1,019	1,019	1,021	1,018	1,020	1,022	1,021	1,020
California	1,035	1,034	1,032	1,033	1,037	1,038	1,035	1,042
Colorado	1,063	1,059	1,063	1,069	1,075	1,074	1,072	1,071
Connecticut	1,027	1,026	1,026	1,026	1,026	1,025	1,025	1,026
Delaware	1,046	1,047	1,045	1,046	1,046	1,043	1,044	1,042
District of Columbia	1,044	1,045	1,040	1,035	1,038	1,038	1,038	1,034
Florida	1,023	1,025	1,024	1,023	1,026	1,026	1,023	1,020
Georgia	1,030	1,031	1,030	1,032	1,032	1,029	1,028	1,027
Hawaii	981	954	947	952	945	947	967	1,050
Idaho	1,038	1,033	1,036	1,035	1,035	1,035	1,028	1,035
Illinois	1,031	1,033	1,031	1,029	1,028	1,030	1,029	1,027
Indiana	1,038	1,035	1,046	1,048	1,042	1,047	1,035	1,042
Iowa	1,056	1,056	1,059	1,059	1,059	1,061	1,057	1,058
Kansas	1,034	1,038	1,039	1,037	1,038	1,039	1,033	1,034
Kentucky	1,030	1,026	1,039	1,027	1,030	1,038	1,033	1,025
Louisiana	1,024	1,023	1,022	1,022	1,026	1,028	1,022	1,023
Maine	1,026	1,030	1,018	1,016	1,019	1,026	1,023	1,023
Maryland	1,051	1,050	1,045	1,042	1,046	1,051	1,052	1,046
Massachusetts	1,030	1,030	1,029	1,029	1,029	1,028	1,028	1,029
Michigan	1,041	1,044	1,048	1,047	1,047	1,052	1,044	1,041
Minnesota	1,037	1,033	1,033	1,037	1,038	1,036	1,034	1,044
Mississippi	1,031	1,033	1,037	1,032	1,034	1,031	1,022	1,030
Missouri	1,024	1,024	1,024	1,024	1,023	1,024	1,022	1,022
Montana	1,034	1,035	1,039	1,029	1,034	1,033	1,028	1,029
Nebraska	1,059	1,059	1,063	1,068	1,069	1,073	1,070	1,064
Nevada	1,041	1,041	1,038	1,039	1,044	1,045	1,044	1,038
New Hampshire	1,029	1,031	1,027	1,028	1,026	1,026	1,026	1,028
New Jersey	1,041	1,042	1,040	1,038	1,038	1,039	1,038	1,037
New Mexico	1,046	1,041	1,040	1,039	1,048	1,055	1,046	1,049
New York	1,031	1,033	1,031	1,030	1,030	1,029	1,029	1,030
North Carolina	1,035	1,032	1,034	1,039	1,037	1,035	1,033	1,034
North Dakota	1,083	1,092	1,075	1,072	1,061	1,090	1,089	1,070
Ohio	1,071	1,073	1,071	1,072	1,068	1,067	1,068	1,069
Oklahoma	1,049	1,053	1,050	1,050	1,053	1,051	1,049	1,046
Oregon	1,059	1,038	1,035	1,038	1,038	1,046	1,045	1,044
Pennsylvania	1,041	1,040	1,039	1,040	1,041	1,039	1,040	1,041
Rhode Island	1,029	1,028	1,028	1,030	1,029	1,028	1,028	1,028
South Carolina	1,030	1,031	1,029	1,031	1,030	1,030	1,029	1,029
South Dakota	1,056	1,052	1,052	1,053	1,056	1,057	1,060	1,058
Tennessee	1,030	1,033	1,035	1,028	1,026	1,025	1,025	1,024
Texas	1,030	1,029	1,028	1,030	1,034	1,035	1,031	1,027
Utah	1,042	1,043	1,042	1,041	1,041	1,042	1,042	1,040
Vermont	1,024	1,029	1,022	1,019	1,016	1,017	1,016	1,025
Virginia	1,053	1,054	1,055	1,052	1,053	1,054	1,054	1,052
Washington	1,078	1,080	1,083	1,081	1,076	1,085	1,085	1,080
West Virginia	1,097	1,085	1,083	1,083	1,103	1,109	1,108	1,118
Wisconsin	1,039	1,041	1,033	1,036	1,029	1,026	1,026	1,033
Wyoming	1,074	1,057	1,056	1,050	1,054	1,058	1,053	1,048
Total	1,037	1,039	1,037	1,036	1,037	1,037	1,034	1,034

See footnotes at end of table.

Table 25. Heating value of natural gas consumed, by state, 2016-2018
(Btu per cubic foot) – continued

State	2016				
	May	April	March	February	January
Alabama	1,028	1,028	1,030	1,025	1,029
Alaska	1,002	1,001	1,001	1,000	1,000
Arizona	1,037	1,042	1,050	1,047	1,046
Arkansas	1,018	1,019	1,017	1,015	1,019
California	1,021	1,035	1,034	1,036	1,038
Colorado	1,066	1,065	1,055	1,052	1,050
Connecticut	1,025	1,026	1,026	1,026	1,026
Delaware	1,042	1,044	1,043	1,050	1,055
District of Columbia	1,035	1,040	1,043	1,049	1,051
Florida	1,021	1,023	1,024	1,025	1,015
Georgia	1,030	1,028	1,030	1,030	1,029
Hawaii	1,018	992	1,003	1,004	998
Idaho	1,044	1,056	1,044	1,038	1,034
Illinois	1,032	1,032	1,030	1,031	1,031
Indiana	1,038	1,034	1,032	1,033	1,030
Iowa	1,057	1,053	1,052	1,052	1,053
Kansas	1,032	1,033	1,037	1,036	1,032
Kentucky	1,018	1,026	1,023	1,025	1,027
Louisiana	1,022	1,021	1,022	1,025	1,024
Maine	1,019	1,024	1,030	1,037	1,035
Maryland	1,047	1,048	1,050	1,055	1,061
Massachusetts	1,029	1,029	1,030	1,032	1,031
Michigan	1,038	1,040	1,036	1,038	1,040
Minnesota	1,042	1,041	1,039	1,035	1,043
Mississippi	1,036	1,033	1,039	1,032	1,031
Missouri	1,021	1,024	1,024	1,023	1,024
Montana	1,023	1,023	1,027	1,030	1,033
Nebraska	1,064	1,062	1,048	1,054	1,054
Nevada	1,039	1,042	1,037	1,042	1,043
New Hampshire	1,027	1,029	1,031	1,039	1,035
New Jersey	1,037	1,039	1,042	1,043	1,044
New Mexico	1,052	1,048	1,048	1,048	1,046
New York	1,029	1,033	1,033	1,034	1,033
North Carolina	1,038	1,038	1,037	1,034	1,034
North Dakota	1,091	1,108	1,099	1,095	1,095
Ohio	1,070	1,068	1,070	1,072	1,073
Oklahoma	1,047	1,044	1,048	1,047	1,049
Oregon	1,043	1,038	1,036	1,034	1,033
Pennsylvania	1,042	1,042	1,042	1,045	1,048
Rhode Island	1,029	1,034	1,025	1,027	1,032
South Carolina	1,030	1,031	1,029	1,031	1,031
South Dakota	1,054	1,052	1,053	1,058	1,060
Tennessee	1,031	1,031	1,034	1,035	1,035
Texas	1,029	1,032	1,030	1,028	1,029
Utah	1,041	1,042	1,041	1,043	1,046
Vermont	1,023	1,028	1,030	1,032	1,029
Virginia	1,054	1,052	1,056	1,055	1,055
Washington	1,078	1,078	1,077	1,075	1,070
West Virginia	1,096	1,096	1,096	1,096	1,092
Wisconsin	1,037	1,038	1,038	1,046	1,045
Wyoming	1,053	1,055	1,071	1,052	1,056
Total	1,034	1,037	1,037	1,038	1,038

Notes: Geographic coverage is the 50 states and the District of Columbia. Heating value is the average number of British thermal units (Btu) per cubic foot of natural gas as reported on Form EIA-857. See Appendix A, Explanatory Note 11, for further information.

Source: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," and Form EIA-923, "Power Plant Operations Report."

Appendix A

Explanatory Notes

The Energy Information Administration (EIA) publishes monthly data for the supply and disposition of natural gas in the United States in the *Natural Gas Monthly* (NGM). The information in this Appendix is provided to assist users in understanding the monthly data. Table A1 lists the methodologies for deriving the data to be published for the most recent months shown in Tables 1 and 2. The following explanatory notes describe sources for all NGM tables.

Table A1. Methodology for most recent monthly natural gas supply and disposition data of tables 1 and 2

Components	Reporting Methodology
Supply and Disposition	
Marketed Production	Estimated from sample data reported on Form EIA-914
Natural Gas Plant Liquid (NGPL)	
Production	Derived from data reported on Form EIA-816
Dry Production	Marketed Production minus NGPL Production
Withdrawals from Storage	Reported on Form EIA-191
Supplemental Gaseous Fuels	Derived from supply estimates and coal gasification information
Imports	Derived from the Office of Fossil Energy
Additions to Storage	Reported on Form EIA-191
Exports	Derived from the Office of Fossil Energy
Current-Month Consumption	Reported on Form EIA-857, Form EIA-923, and other sources below
Consumption by Sector	
Lease and Plant Fuel	Derived from Marketed Production
Pipeline and Distribution Use	Derived from Deliveries to Consumers
Residential	Estimated from sample data reported on Form EIA-857
Commercial	Estimated from sample data reported on Form EIA-857
Industrial	Estimated from sample data reported on Form EIA-857
Electric Power	Estimated from sample data reported on Form EIA-923
Vehicle Fuel	EIA computations

Note 1. Production

Monthly Data

Estimates of gross withdrawals and marketed production for the Lower 48 states are derived from submissions by well operators on the monthly Form EIA-914, "*Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report.*" For 2017 forward, volumes are available only for those states/areas that were collected

individually on the EIA-914 survey (Arkansas, California (including State Offshore), Colorado, Federal Offshore Gulf of Mexico, Kansas, Louisiana (including State Offshore), Montana, New Mexico, North Dakota, Ohio, Oklahoma, Pennsylvania, Texas (including State Offshore), Utah, West Virginia, and Wyoming). The “other states” category comprises states/areas not individually collected on the EIA-914 survey (Alabama, Arizona, Federal Offshore Pacific, Florida, Idaho, Illinois, Indiana, Kentucky, Maryland, Michigan, Mississippi, Missouri, Nebraska, Nevada, New York, Oregon, South Dakota, Tennessee, and Virginia). All data for Alaska are obtained directly from the state. The sum of individual states may not equal total U.S. volumes due to independent rounding. (See the [EIA-914 Methodology](#) for an explanation of the procedure for estimating state gross withdrawals from reported volumes.)

Marketed production is estimated from gross withdrawals using historical relationships between the two. All monthly data are considered preliminary up to the cover year of the most recent [Natural Gas Annual](#).

Annual Data

Natural gas production data (gross withdrawals, gas vented and flared, repressuring, nonhydrocarbon gases removed, fuel used on leases, and marketed production) were obtained directly from the state agencies where available, or, in some cases, from EIA-914 estimates, state sponsored public record databases, or commercial data vendors such as DrillingInfo (DI) or PointLogic. Production data for the Federal Gulf of Mexico region are provided by the U.S. Bureau of Safety and Environmental Enforcement (BSEE). Federal Offshore Pacific production, currently allocated to California, is also collected from BSEE.

Note 2. Natural Gas Plant Liquid (NGPL) Production

Monthly Data

Monthly NGPL production is reported by gas processing plants on Form EIA-816, “Monthly Natural Gas Liquids Report.” These liquid volumes are converted to natural gas equivalents using factors consistent with industry standards published by the Gas Processors Association, and instructions to respondents to EIA’s annual survey of gas processing plants, Form EIA-64A, “Annual Report of the Origin of Natural Gas Liquids Production.” Separate values are used for ethane, propane, isobutane, and normal butane. A value for “natural gasoline,” reflecting pentanes and higher, is used. A separate value for isopentane is also used when reporting facilities have the capability to separate out and market isopentane on its own. The value for natural gasoline also includes isopentane - this value is used when estimating the volumetric equivalent of “pentanes plus” produced. These factors all are for “real” rather than “ideal” gas volumes stated at a pressure of 14.73 pounds per square inch absolute (psia) at 60 degrees Fahrenheit on a dry basis.

Annual Data

The final NGPL production estimates, published in the NGA, incorporate information received from gas processing plants on Form EIA-64A, “Annual Report of the Origin of Natural Gas Liquids Production.” Monthly NGPL production estimates are recalibrated to equate to this total.

Note 3. Supplemental Gaseous Fuels

Monthly Data

All monthly data are considered preliminary until after the publication of the NGA for the year in which the report month falls. Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the monthly sum of these three elements to compute a monthly supplemental gaseous fuels figure.

Monthly data are revised after publication of the NGA. Final monthly data are estimated based on the revised annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This revised ratio is applied to the revised monthly sum of these three supply elements to compute final monthly data.

Annual Data

Annual data on supplemental gaseous fuel supply are reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Note 4. Imports and Exports

Monthly and Annual Data – Imports

Monthly import and export data are from Form FE-746R, "Import and Export of Natural Gas," from the Office of Fossil Energy, U.S. Department of Energy. Annual data are the aggregate of the monthly data for that year.

Note 5. Natural Gas Storage

Note that final monthly and annual storage levels, additions, and withdrawal data shown in Table 1 for 2013 through 2016 include both underground and liquefied natural gas (LNG) storage. Beginning in January 2013, U.S. totals include Alaska data. Prior to 2013, totals only included data from the lower 48 states. Beginning in November 2015, new region breakouts of the storage data shown in Tables 12 and 13 were introduced, replacing the Producing, East, and West region breakouts. The states included in each of the new regions are as follows:

East Region: Connecticut, Delaware, District of Columbia, Florida, Georgia, Massachusetts, Maryland, Maine, New Hampshire, New Jersey, New York, North Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Vermont, Virginia, and West Virginia.

South Central Region: Alabama, Arkansas, Kansas, Louisiana, Mississippi, Oklahoma, and Texas.

Midwest Region: Illinois, Indiana, Iowa, Kentucky, Michigan, Minnesota, Missouri, Tennessee, and Wisconsin.

Mountain Region: Arizona, Colorado, Idaho, Montana, Nebraska, Nevada, New Mexico, North Dakota, South Dakota, Utah, and Wyoming.

Pacific Region: California, Oregon, and Washington.

Monthly Data

Preliminary and final monthly data on underground storage levels, additions, and withdrawals are from the Form EIA-191, “Monthly Underground Gas Storage Report.” All operators of underground storage fields complete the survey.

Estimates of monthly LNG additions and withdrawals are calculated by applying the proportion of each month’s net injections to underground storage during the injection season to annual LNG additions and the proportion of each month’s net withdrawals from underground storage during the withdrawal season to annual LNG withdrawals.

There are three principal types of underground storage facilities in operation in the United States today: salt caverns (caverns hollowed out in salt “bed” or “dome” formations), depleted fields (depleted reservoirs in oil and/or gas fields), and aquifer reservoirs (water-only reservoirs conditioned to hold natural gas). A storage facility’s daily deliverability or withdrawal capability is the amount of gas that can be withdrawn from it in a 24-hour period. Salt cavern storage facilities generally have high deliverability because all of the working gas in a given facility can be withdrawn in a relatively short period of time. (A typical salt cavern cycle is 10 days to deplete working gas, and 20 days to refill working gas.) By contrast, depleted field and aquifer reservoirs are designed and operated to withdraw all working gas over the course of an entire heating season (about 150 days). Further, while both traditional and salt cavern facilities can be switched from withdrawal to injection operations during the heating season, this is usually more quickly and easily done in salt cavern facilities, reflecting their greater operational flexibility.

Annual Data

Final annual data on additions and withdrawals from underground storage facilities are the sum of the monthly data from the EIA-191.

Annual data on LNG additions and withdrawals are from the EIA-176.

Note 6. Consumption

Monthly Data

All monthly data are considered preliminary until after publication of the NGA.

Annual Data

All annual data are from the NGA. Total consumption is the sum of the components of consumption listed below. Monthly data are revised after publication of the NGA.

Residential, Commercial, and Industrial Consumption

Preliminary estimates of monthly deliveries of natural gas to residential, commercial, and industrial consumers in 50 states are based on data reported on Form EIA-857, “Monthly Report of Natural Gas Purchases and Deliveries.” See Appendix C, “Statistical Considerations,” for a detailed explanation of sample selection and estimation procedures. Monthly data for a given year are revised after the publication of the NGA to correct for any sampling errors. Final monthly data are

estimated by allocating annual consumption data from the Form EIA-176 to each month in proportion to monthly volumes reported in Form EIA-857.

Vehicle Fuel Use

Monthly U.S. total estimates of natural gas (compressed or liquefied) used as vehicle fuel are derived from an annual estimate of vehicle fuel use provided by the Office of Electricity, Renewables, and Uranium Statistics of EIA.

Electric Power Consumption

Monthly estimates of deliveries of natural gas to electric power producers are derived from data submitted by the sample of electric power producers reporting monthly on Form EIA-923, "Power Plant Operations Report," which replaced Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." The estimates reported in the NGM represent gas delivered to electricity-only plants (utility and independent power producers) and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public. For a discussion of these estimates, see the [Electric Power Monthly](#).

Pipeline and Distribution Use

Preliminary monthly estimates are based on the pipeline fuel consumption as an annual percentage of total consumption from the previous year's Form EIA-176. This percentage is applied to each month's sum of total deliveries plus lease and plant fuel to compute the monthly estimate.

Monthly data are revised after the publication of the NGA. Final monthly data are based on the revised annual ratio of pipeline fuel consumption to total consumption from the Form EIA-176. This ratio is applied to each month's revised sum of total deliveries plus lease and plant fuel to compute final monthly pipeline fuel consumption estimates.

Lease and Plant Fuel Consumption

Preliminary monthly data are estimated based on lease and plant fuel consumption as an annual percentage of marketed production. This percentage is applied to each month's marketed production figure to compute estimated lease and plant fuel consumption.

Monthly data are revised after publication of the NGA. Final monthly plant fuel data are based on a revised annual ratio of plant fuel consumption to marketed production from Form EIA-176. This ratio is applied to each month's revised marketed production figure to compute final monthly plant fuel consumption estimates. Final monthly lease data are collected directly from state agencies' websites where available. For states where these data are not available, lease fuel quantities were estimated by applying an average of the states' historical ratio of lease fuel to gross withdrawals. See the NGA for a complete discussion of this process.

Note 7. Balancing Item

The balancing item category represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to data reporting problems or to issues in survey coverage. Preliminary monthly data in the balancing item category are calculated by subtracting dry gas production, withdrawals from storage, supplemental gaseous fuels, and imports from total disposition. The balancing item may reflect problems in any of the surveys comprising natural gas supply or disposition.

Reporting problems include differences due to the net result of conversions of flow data metered at varying temperatures and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycles and calendar periods; and imbalances resulting from the merger of data reporting systems, which vary in scope, format, definitions, and type of respondents. Survey coverage problems include incomplete survey frames or problems in sampling design.

Annual data are from the NGA. For an explanation of the methodology used in calculating the annual balancing item, see the NGA.

Note 8. Average Price of Deliveries to Consumers

For most states, price data are representative of prices for gas sold and delivered to residential, commercial, and industrial consumers by local distribution companies. Published prices are considered to be total prices paid by end-users per thousand cubic feet of natural gas in the respective sectors, inclusive of all tax, delivery, commodity, demand and other charges. In the states of Georgia, Maryland, New York, Ohio, and Pennsylvania, the residential and commercial sector prices reported in the NGM include data on prices of gas sold to customers in those sectors by energy marketers. These latter data are collected on Form EIA-910, "Monthly Natural Gas Marketer Survey." In 2008 through 2010, in the states of Florida, Georgia, Maryland, New Jersey, New York, Ohio, Pennsylvania, and Virginia, residential price data were based on total gas deliveries, and, in the states of Florida, Georgia, Maryland, Michigan, New York, Ohio, Pennsylvania, Virginia, and the District of Columbia, commercial price data were based on total gas deliveries. Beginning in 2011, however, residential and commercial price data are based on total gas deliveries in the states of Georgia, New York and Ohio only. Residential and commercial sector prices reported in the NGM include data on prices of gas sold to customers in those states by energy marketers as data quality becomes acceptable. Except for these states, none of the prices reflect average prices of natural gas transported to consumers for the account of third parties. Table 24 indicates the percentage of total deliveries included in residential, commercial, and industrial price estimates.

Prices of natural gas delivered to the electric power sector are derived from data reported on the Form EIA-923, "Power Plant Operations Report." Prices from these surveys are also published in the [Electric Power Monthly](#).

Note 9. NGPL Composite Spot Price and Natural Gas Spot Price

Monthly Data

The natural gas plant liquids (NGPL) composite price published in the NGM is derived from spot price data at Mont Belvieu, Texas, from Bloomberg. Daily closing spot prices for ethane, propane, butane, isobutane, and natural gasoline (pentanes plus) are each averaged into a monthly series, then weighted according to the portion of a representative natural gas plant liquids barrel that they occupy. Volume weights are updated monthly using the latest available data collected on Form EIA-816, *Monthly Natural Gas Liquids Report*. The NGPL composite price excludes natural gas liquids produced at crude oil refineries.

Bloomberg spot price data for each natural gas liquids (NGL) product are in cents per gallon. EIA converts these prices into dollars per barrel. Using heat conversion factors from Table A1 in the appendix of the *Annual Energy Review*, "Approximate Heat Content of Petroleum Products," the prices are converted to dollars per million British thermal units (MMBtu) for each natural gas liquid.

The NGPL composite spot price is calculated as:

$$P = \sum \left(p_i * \frac{v_i}{V} \right)$$

where:

P = the NGPL composite spot price in dollars per MMBtu,

p_i = the monthly spot price for natural gas liquids product i in dollars per MMBtu,

V = the total volume of natural gas plant liquids produced in the report month,

v_i = the monthly production volume for natural gas plant liquids product i .

The natural gas spot price is the simple average of the daily closing spot prices for natural gas at the Henry Hub in Louisiana. This series is published by Thompson Reuters and republished by EIA with permission.

Annual Data

The annual NGPL composite spot price represents the average cost of a representative barrel of NGPL in a given year. This annual figure is calculated as the total cost of all NGPL products sold, as priced at Mont Belvieu, divided by the total volume of all NGPL products produced for the year derived by summing the months of natural gas plant liquids production data collected on Form EIA-816.

The annual natural gas spot price represents the average of daily closing spot prices for dry natural gas at the Henry Hub in Louisiana in a given year.

Note 10. Heating Degree-Days

Degree-days are relative measurements of outdoor air temperature. Heating degree-days are deviations of the mean daily temperature below 65 degrees Fahrenheit. A weather station recording a mean daily temperature of 40 degrees Fahrenheit would report 25 heating degree-days. There are several degree-day databases maintained by the National Oceanic and Atmospheric Administration. The information published in the NGM, is developed by the National Weather Service Climate Analysis Center, Camp Springs, Maryland.

The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at these weather stations is used to calculate statewide degree-day averages weighted by gas home customers. The state figures are then aggregated into Census Divisions and into the national average. Table 26 of this report presents the Heating Degree data, and is included in the December through April NGM publications.

Note 11. Heat Content

The Form EIA-857 collects volume and cost data on natural gas delivered to residential, commercial, and industrial consumers, as shown in Tables 2 and 25 of the NGM. Data are reported by a sample of natural gas companies that deliver to consumers in the United States. Respondents are instructed to calculate the average heat content (Btu) by summing the total Btu delivered each month (volume delivered directly to consumers) multiplied by average Btu content per unit volume and then dividing by the total volume delivered directly to consumers during that month. The average Btu content for each month should be that used for billing purposes whether billing was on a therm (100,000 Btu) or dekatherm (1,000,000 Btu) basis. The value for heat content is expected to be in the range of 900 to 1200 Btu/cubic foot.

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Appendix B

Data Sources

The data in this publication are taken from survey reports collected by the Energy Information Administration (EIA), the Federal Energy Regulatory Commission (FERC), and the Office of Fossil Energy of the U.S. Department of Energy (DOE). The EIA is the independent statistical and analytical agency within the DOE. The FERC is an independent regulatory commission within the DOE that has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. The Office of Fossil Energy has the authority under Section 3 of the Natural Gas Act of 1938 to grant authorizations for the import and export of natural gas.

Data are collected from annual, quarterly, and monthly surveys. The primary annual report is the Form EIA-176, “Annual Report of Natural and Supplemental Gas Supply and Disposition,” a mandatory survey of all companies that deliver natural gas to consumers or that transport gas across state lines. Another annual report, Form EIA-895, “Annual Quantity and Value of Natural Gas Production Report,” was completed by agencies in the 32 gas producing states through 2010. EIA obtained similar data directly from the states beginning in 2011. The EIA-895 Form collected volumes of natural gas gross withdrawals, those vented and flared, returned to formation, or used on the lease, and the volume of nonhydrocarbons removed from the produced stream. It also collected information on the value of marketed production. The Office of Fossil Energy provides monthly and quarterly files of data on imports and exports. The monthly reports include surveys of the natural gas industry, and of the electric power industry. The monthly natural gas industry surveys are: the Form EIA-191, filed by companies that operate underground storage facilities in the Lower 48 states; the Form EIA-914, filed by a sample of companies that operate wells producing natural gas; the Form EIA-857, filed by a sample of companies that deliver natural gas to consumers; and the Form EIA-910, filed by natural gas marketers in select states. The electric power industry source for both price and consumption data is Form EIA-923, “Power Plant Operations Report.” Responses to all current surveys are mandatory. A description of the survey respondents, reporting requirements, and processing of the data is given on the following pages for each of the natural gas surveys. Copies of the forms and instructions are available on the EIA website. Further information about Electric Power forms can be found in Appendix C of the [Electric Power Monthly](#).

Form EIA-176, “Annual Report of Natural and Supplemental Gas Supply and Disposition”

The Form EIA-176 is mailed to all identified interstate and intrastate natural gas pipeline companies; investor and municipally owned natural gas distributors; underground natural gas storage operators; synthetic natural gas plant operators; field, well, or processing plant operators that deliver natural gas directly to consumers (including their own industrial facilities); and/or companies that transport gas across a state border through field or gathering facilities. Each company is required to file if it meets the survey specifications. The mailing in 2017 for report year 2016 totaled approximately 2,038 questionnaire packages. While final nonresponse rates vary, the rates have averaged about 1 percent in recent years.

The Form EIA-176 is a multi-line, multi-page schedule for reporting all supplies of natural gas and supplemental gaseous fuels and their disposition within the state indicated. Respondents file completed forms with EIA in Washington, DC. Data for the report year are due by March 1st. Extensions of the filing deadline for up to 30 days are granted to any respondent upon request.

All natural gas and supplemental gaseous fuels volumes are reported on a physical custody basis in thousand cubic feet (Mcf), and dollar values are reported to the nearest whole dollar. All volumes are reported at 14.73 pounds per square inch absolute pressure (psia) and 60 degrees Fahrenheit.

Data from Form EIA-176 are also published in the [Natural Gas Annual](#) (NGA) and are available from the Form EIA-176 Query system posted on the EIA website. Data reported on this form are not considered proprietary. Response to the form is mandatory.

Form EIA-895, “Monthly and Annual Quantity and Value of Natural Gas Report”

Monthly production data were collected through Form EIA-895, “Monthly and Annual Quantity and Value of Natural Gas Report,” from January 1995 through December 2006. The form was designed to provide a standard reporting system, to the extent possible, for the natural gas data reported by the states. Data were not considered proprietary. All gas-producing states and the Bureau of Safety & Environmental Enforcement (and predecessor agencies) were requested to report on the Form EIA-895, a voluntary report that was used through 2010.

In 1996, an annual schedule was added to the voluntary Form EIA-895 to replace a prior annual production form. This annual schedule, designated Form EIA-895, continued to be used for collecting production data from states through 2010. In 2011, annual gas production data were obtained directly from publicly available state data.

The commercial recovery of methane from coalbeds and shale plays contributes a significant amount to the production totals in a number of states. Gross production quantities of natural gas from coalbed methane seams and shale plays (in thousand cubic feet) are obtained from PointLogic Energy. Previously, data from LCI Energy Insight (LCI) were used. In 2007-2009, an average daily production rate, available for each year, from coalbed methane and shale were used to allocate production data across months depending on the number of days in each month. For 2010 forward, monthly coalbed and shale data from LCI and, later, PointLogic Energy, were developed with the following method:

[Quarterly Daily Shale Production Rate (MMcf/day) x Number of Days in Quarter x 1000] x [Month Gross Production Volume / Quarter Gross Production Volume]

Beginning in 2010, for Pennsylvania, the quarterly shale data were also used to create a gross production monthly pattern. Data for coalbed and shale gas wells are not shown in the *Natural Gas Monthly*; however, coalbed and shale breakouts are available via the [Natural Gas Navigator](#).

The EIA-895 also collected data on volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on

lease; and marketed production as well as the monthly volume and value of marketed production. From 2011 forward, these data were obtained directly from the states or, where it was not available, estimated by EIA. The annual schedule of the EIA-895 also collected data on the number of producing gas wells, the production of natural gas including gross withdrawals from both gas and oil wells; volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on lease; marketed production; the value of marketed production; and quantity of marketed production (value based). From 2011 forward, the same items were obtained directly from the states or estimated by EIA where it was not available. From 2011 forward, the number of producing wells is from *World Oil Magazine*. All volumes are in thousand cubic feet at the states' standard pressure base and at 60 degrees Fahrenheit. All dollar values are reported in thousands.

Form EIA-914, " Monthly Crude Oil and Lease Condensate, and Natural Gas Production Report"

The Form EIA-914 is a sample survey of well operators in the Lower 48 states and 16 states or regions (Arkansas, California, Colorado, Kansas, Louisiana, Montana, North Dakota, New Mexico, Ohio, Oklahoma, Pennsylvania, Texas, Utah, West Virginia, Wyoming, and the Federal Offshore Gulf of Mexico). Current estimates of monthly production are based on this survey. The survey collects natural gas production volume information on a monthly basis, aggregated to the areas specifically requested. Two volumes are requested from respondents for each area in which they operate wells: (1) "gross withdrawals (wet)," which is the full-bore well stream gas minus lease condensate, oil, and water; and (2) "natural gas lease production," which is a measure indicating the net amount of produced gas leaving the lease to go to natural gas processing plants or directly to end-users. Estimates of gross withdrawals in a state are made from the reported gross withdrawal volumes. Marketed production is estimated from gross withdrawals using state estimates of repressuring, vented and flared, and nonhydrocarbon gases removed.

The EIA-914 survey form is an 11-page document, similar in format to other surveys in EIA's Office of Oil, Gas, and Coal Supply Statistics. The form was designed based on direct input from potential respondents during pre-survey design visits and the quality and usability of the survey instrument were established with cognitive testing conducted by survey methodologists in EIA's Statistics and Methods Group. Based on the test results, the form includes imbedded instructions, intended to help respondents complete the form without the need to refer to instructions located elsewhere.

A full description of the survey methodology may be found at the [EIA-914 Methodology](#).

Form EIA-191, "Underground Natural Gas Storage Report"

The Form EIA-191, "Monthly Underground Natural Gas Storage Report," is completed by approximately 131 companies that operate underground facilities in the United States (prior to 2013, Alaska data were not included in the EIA-191 survey). The final monthly and annual response rates are 100 percent. The Form EIA-191 monthly schedule contains current month data on the total quantities of gas in storage, injections and withdrawals, the location (including state and county, field, reservoir) and peak day withdrawals during the reporting period. The annual schedule contains type of facility, storage field capacity, maximum deliverability

and pipelines to which each field is connected. The annual schedule for the prior year is filed with the December submission.

Collection of the survey is on a custody basis. Information requested must be provided within 20 days after the last day of each month. Twelve reports are required per calendar year. Respondents are required to indicate whether the data reported are actual or estimated. For most of the estimated filings, the actual data or necessary revisions are submitted on separate forms for each month. Actual data on natural gas injections and withdrawals from underground storage are based on metered quantities. Data on quantities of gas in storage and on storage capacity represent, in part, reservoir engineering evaluations. All volumes are reported at 14.73 psia and 60 degrees Fahrenheit.

The *Monthly Energy Review* contains data from the Form EIA-191 survey.

[“Quarterly Natural Gas Import and Export Sales and Price Report”](#)

Beginning in 1995, import and export data have been taken from the “Quarterly Natural Gas Import and Export Sales and Price Report.” This report is prepared by the Office of Fossil Energy, U.S. Department of Energy, based on information submitted by all firms having authorization to import or export natural gas. The Office of Fossil Energy provides authorizations for imports or exports under Section 3 of the Natural Gas Act of 1938.

All companies are required, as a condition of their authorizations, to file monthly and quarterly reports with the Office of Fossil Energy. The data are reported at a monthly level of detail.

[Form EIA-857, “Monthly Report of Natural Gas Purchases and Deliveries to Consumers”](#)

Monthly price and volume data on gas deliveries are collected on the Form EIA-857 from a sample of respondents representing the 50 states and the District of Columbia. Response to Form EIA-857 is mandatory and data are considered proprietary. Completed forms are required to be submitted to EIA on or before the 30th day after the end of the report month.

A sample of approximately 300 natural gas companies, including interstate pipelines, intrastate pipelines, and local distribution companies, report to the survey. The sample was selected independently for each of the 50 states and the District of Columbia from a frame consisting of all respondents to Form EIA-176 who reported deliveries of natural gas to consumers in the residential, commercial, or industrial sectors. Each selected company is required to complete and file the Form EIA-857 monthly. Each month about half the responses are received by the due date although response rates by first publication of the relevant month are approximately 95 percent. When a response is extremely late, volumes are imputed, as described in Appendix C, “Statistical Considerations.” When the company’s submission is eventually received, the submitted data are entered into the data system and used for subsequent processing and revisions.

Form EIA-857 data are used to estimate monthly sales of natural gas (volume and price) by state and monthly deliveries of natural gas on behalf of others (volume) by state to three consumer sectors --residential, commercial, and industrial. Data from Form EIA-857 are also used to calculate the citygate price. See Appendix

C for a discussion of the sample design and estimation procedures. Monthly prices of natural gas to the electric power sector are calculated from data reported on Form EIA-923, "Electric Power Plant Operations." Data from Form EIA-857 are also used to calculate the citygate price.

Form EIA-910, "Monthly Natural Gas Marketer Survey"

The Form EIA-910, "Monthly Natural Gas Marketer Survey," collects information on natural gas sales from marketers in selected states (Florida, Georgia, Illinois, Maryland, Massachusetts, Michigan, New Jersey, New York, Ohio, Pennsylvania, West Virginia, Virginia, and the District of Columbia) that have active customer choice programs. Beginning in 2011, the EIA-910 is collected only in Georgia, New York and Ohio. These states were selected based on the percentage of natural gas sold by marketers in the residential and commercial end-use sectors. The survey collects monthly price and volume data on natural gas sold by all marketers in the selected states. A natural gas marketer is a company that competes with other companies to sell natural gas service, but relies on regulated local distribution companies to deliver the gas. The data collected on the Form EIA-910 are integrated with residential and commercial price data from the Form EIA-857 for the states where the EIA-910 data are collected as data quality becomes acceptable. Response to the EIA-910 is mandatory and data are considered proprietary.

Approximately 100 natural gas marketers currently report to the survey. Final monthly survey response rates are approximately 95 percent. Responses are filed with EIA in Washington, DC, on or before the 30th day after the end of the report month.

All natural gas volumes are reported in thousand cubic feet at 14.73 psia at 60 degrees Fahrenheit, and dollar values are reported as whole dollar.

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Appendix C

Statistical Considerations

The monthly volumes and prices of natural gas to residential, commercial, and industrial consumers presented in this report by state are estimated from data reported on the Form EIA-857, “Monthly Report of Natural Gas Purchases and Deliveries to Consumers.”

Monthly prices in select states are supplemented with data from the Form EIA-910, “Monthly Natural Gas Marketer Survey.” (See Appendix B, “Data Sources,” for a description of these Forms.)

A description of the sample design and the estimation procedures is given below.

Sample Design

The Form EIA-857 implements a monthly sample survey of companies delivering natural gas to consumers. It includes inter- and intrastate pipeline companies and local distribution companies.

The survey provides data that are used each month to estimate the volume of natural gas delivered and the price for onsystem sales of natural gas by state to three consumer sectors—residential, commercial, and industrial.

Monthly deliveries and prices of natural gas to the electric power sector are reported on the Form EIA-923, “Power Plant Operations Report.”

Sample Universe. The sample in use for 2018 was selected from a universe of 1,591 companies. These companies were respondents to the Form EIA-176, “Annual Report of Natural and Supplemental Gas Supply and Disposition,” for reporting year 2016, who reported sales or deliveries to consumers in the residential, commercial, or industrial sectors. (See Appendix B for a description of the Form EIA-176.)

Sampling Plan. Beginning in 2012, EIA changed its sample design from single stage probability-proportional-to-size (“PPS”) to a cut off sample in order to reduce respondent burden and decrease processing costs. The skewness of the volume of reported natural gas within the primary traditional sectors of interest for the EIA-857, residential, commercial, and industrial, is sufficiently large to enable a cut-off design that will maintain estimates of similar quality as under the previous PPS sample design.

One of the purposes of the sample is to provide a ratio useful for scaling the monthly state sector volumes in the sample up to precise estimates of the actual state sector monthly volumes. In cases where at most two suppliers in a state service a particular sector, all suppliers are included in the cut off sample. In states with more than two suppliers in a sector, the cut off sample is constructed by adding suppliers in descending order of volume until the change in the ratio of interest is considered statistically insignificant.

The single stage PPS sample design typically yielded approximately 390 respondents for the EIA-857 during 2009-2011. The cutoff sample approach as described above reduces this figure to approximately 300 respondents.

Estimation Procedures

Estimates of Volumes. Total gas sales and deliveries is estimated as the sum of estimated volume of natural gas sales by EIA-857 sample companies and estimated volume of natural gas transported on behalf of others by EIA-857 sample companies. To estimate each component volume for a state, a ratio estimator is calculated separately for the volume of natural gas sales by EIA-857 sample companies and the volume of natural gas transported on behalf of others by EIA-857 sample companies. These ratios are then applied to the reported sales volumes and transportation volumes respectively. This is done in each state by sector for the sampled companies.

Ratio estimators are typically calculated for each consumer sector — residential, commercial, and industrial — in each state where companies are sampled using annual data from the most recent submission of Form EIA-176.

The classical ratio estimator (CRE) for the volume of gas in a state for consumer sector j is:

$$V_j = \sum_{i \in s} y_{ij} + \frac{\sum_{i \in s} y_{ij}}{\sum_{i \in s} x_{ij}} \sum_{i \notin s} x_{ij}$$

or

(1)

$$V_j = \frac{\sum_{i \in s} y_{ij}}{\sum_{i \in s} x_{ij}} \sum_{i \in s \cup s^c} x_{ij}$$

where for either the natural gas sales by **EIA-857 sample companies** or the natural gas transported on behalf of others by EIA-857 sample companies:

V_j = the estimate of monthly gas volumes in a state for consumer sector j ,

y_{ij} = the monthly volume within a state for sector j and company i ,

x_{ij} = the annual volume within a state for sector j and company i ,

Ideally, the ratio $\frac{\sum_{i \in s} y_{ij}}{\sum_{i \in s} x_{ij}}$ is calculated separately for each state by sector cross classification. However, because certain states have extremely small sample sizes, we combine some states for estimation purposes only, in order to obtain more stable estimates. The state groupings are referred to as estimation groups. For most states, especially the large ones, the ratio will continue to be estimated separately as described above. The final volume estimates, V_j , will continue to be published separately for all states.

When an estimation group involves more than one state, such states are geographical neighbors, and the states in each group fall within a temperature and precipitation region, as defined by the National Climatic Data Center (NCDC).

Grouping states this way is an application of small area estimation, where more reliable estimates are obtained by “borrowing strength” from neighboring states with similar climate patterns. For more details see <http://interstat.statjournals.net/YEAR/2014/articles/1405001.pdf>

For most respondents, the estimation of residential and commercial consumption requires one additional step than the industrial sector. In this extra step the company level reported volumes are adjusted using sendout.

Sendout, which was added to Form EIA-857 for the August 2010 report month, is the total volume of gas dispatched for delivery during a calendar month. It should be noted that the adjusted volumes for the residential and commercial sector are used in equation 2.

The adjustment is implemented by taking reported sendout and removing gas that is consumed in company operations and distribution use as well as gas delivered to electric power, industrial, and vehicle use sectors. The remaining gas is allocated to the residential and commercial sectors proportionally based on reported totals for the report month. For a small number of companies, the adjustment to sendout is applied to all sectors in order to better represent their billing practices. In these cases, sendout is applied to all end-use sectors proportionally instead of just to residential and commercial.

The formulas for adjusting the reported residential and commercial volumes at the company level are:

$$R_{adj} = (SO * (1 - Oth) - EP - IN) * \frac{R}{R + C} \quad (2)$$

$$C_{adj} = (SO * (1 - Oth) - EP - IN) * \frac{C}{R + C} \quad (3)$$

where:

R_{adj} = sendout adjusted residential volume,

C_{adj} = sendout adjusted commercial volume,

SO = sendout volume,

Oth = ratio of annual distribution use and vehicle fuel to total deliveries,

EP = reported electric power volume,

IN = reported industrial volume,

R = reported residential volume,

C = reported commercial volume.

Estimates of Revenue. Revenue is calculated similarly to volumes. Sales revenue is estimated as the sum of estimated revenue from natural gas sales by EIA-857 sample companies for each sector by state and applying the ratio estimator in equation 1. Similar to volumes, states are combined if the sample size (by sector) is too small in order to estimate the ratio.

Computation of Natural Gas Prices. The natural gas volumes that are included in the computation of prices represent only those volumes associated with natural gas sales by natural gas companies except as explained below.

The price of natural gas within a state for sector j is calculated as follows:

$$P_j = \frac{R_j}{V_j} \quad (4)$$

where:

P_j = the average price for gas sales within a state for consumer sector j ,

R_j = the reported revenue from natural gas sales within a state for consumer sector j ,

V_j = the reported volume of natural gas sales within a state for consumer sector j .

All average prices are weighted by their corresponding sales volume estimates when national average prices are computed.

For select states (Georgia, New York and Ohio), the monthly average prices of natural gas to residential and commercial consumers are based on total sales (sales by local distribution companies and natural gas marketers). See the Form EIA-910 description in Appendix B, "Data Sources," for details.

Volumes of gas delivered for the account of others to these consumer sectors are not included in the state or national average prices except in these states.

The price of natural gas in the residential and commercial sectors where EIA-910 data are used is calculated as follows:

$$P_c = \left[\left(\frac{R_s}{V_s} \right) * \left(\frac{V_s}{V_s + V_t} \right) \right] + \left[\left(\frac{Rm_s}{Vm_s} \right) * \left(\frac{V_t}{V_s + V_t} \right) \right] = \frac{R_s + \left(\frac{Rm_s}{Vm_s} \right) * V_t}{V_s + V_t} \quad (5a)$$

for Georgia, and,

$$P_c = \left[\left(\frac{R_s}{V_s} \right) * \left(\frac{V_s}{V_s + V_t} \right) \right] + \left[\left(\frac{Rm_s}{Vm_s} + \frac{R_t}{V_t} \right) * \left(\frac{V_t}{V_s + V_t} \right) \right] = \frac{R_s + \left(\frac{Rm_s}{Vm_s} \right) * V_t + R_t}{V_s + V_t} \quad (5b)$$

for New York and Ohio, where:

P_c = the combined average price for gas sales by local distribution companies and marketers within the state in sector s (residential or commercial),

R_s = the estimated revenue from natural gas sales by local distribution companies within the state in sector s (residential or commercial),

V_s = the estimated volume of natural gas sales by local distribution companies within the state in sector s (residential or commercial),

V_t = the estimated volume of natural gas transported by local distribution companies for marketers within the state in sector s (residential or commercial),

Rm_s = the reported revenue from natural gas sales by marketers within the state in sector s (residential or commercial),

Vm_s = the reported volume of natural gas sales by a marketer within the state in sector s (residential or commercial),

R_t = the estimated revenue from natural gas transported by local distribution companies for marketers within the state in sector s (residential or commercial).

Table 24 shows the percent of the total state volume that represents volumes from natural gas sales to the residential, commercial, and industrial sectors. This table may be helpful in evaluating residential, commercial, and industrial price data.

Estimation for Nonrespondents and Edit Failures.

A volume for each delivered and transported consumer category is imputed for companies that fail to respond in time for inclusion in the published estimates (unit nonresponse) or for which reported volumes have failed the edit and not been confirmed or corrected (item nonresponse).

In the case of unit nonresponse and edit failures, the imputed volumes and revenues for the residential, commercial, and industrial sectors are predicted using CRE. In other words, they are predicted the same way as out of sample cases. In particular, for company i , which can be a nonrespondent, edit failure or not sampled, the predicted value is given as:

$$y_{ij}^* = \frac{\sum_{i \in s, j} y_{ij}}{\sum_{i \in s, j} x_{ij}} x_{ij}^*$$

where:

y_{ij}^* = the estimated value (volume or revenue) of the nonrespondent company or for a company value that fails an edit,

x_{ij}^* = the reported value (volume or revenue) of the nonrespondent company from the latest Form EIA 176 survey.

Again the ratio $\frac{\sum_{i \in s} y_{ij}}{\sum_{i \in s} x_{ij}}$ is calculated separately for most states, but several states can be combined as described in the “Estimates of Volume” section above when sample size is too small for a state by sector classification.

Final Revisions

Adjusting Monthly Data to Annual Data. After the annual data reported on the Form EIA-176 have been submitted, edited, and prepared for publication in the [Natural Gas Annual](#) (NGA), revisions are made to monthly data.

The revisions are made to the volumes and prices of natural gas delivered to consumers that have appeared in the *Natural Gas Monthly* (NGM) to match them to the annual values appearing in the *Natural Gas Annual*.

The revised monthly estimates allocate the difference between the sum of monthly estimates and the annual reports, according to the distribution of the estimated values across the months.

Before the final revisions are made, changes or additions to submitted data received after publication of the monthly estimate and not sufficiently large to require a revision to be published in the NGM, are used to derive an updated estimate of monthly consumption and revenues for each state's residential, commercial, or industrial natural gas consumption.

For each state, two numbers are revised, the estimated consumption and the estimated price per thousand cubic feet.

The formula for revising the estimated consumption is:

$$V_{jm}^* = V_{jm} \left(\frac{V_{ja}}{V'_{jm}} \right) \quad (6)$$

where:

V_{jm}^* = the final volume estimate for month m in consumer sector j,

V_{jm} = the estimated volume for month m in consumer sector j,

V_{ja} = the volume for the year reported on Form EIA-176,

V'_{jm} = the annual sum of estimated monthly volumes.

The price is calculated as described above in the Estimation Procedures section, using the final revised consumption estimate and a revised revenue estimate.

The formula for revising the estimated revenue is:

$$R_{jm}^* = R_{jm} \left(\frac{R_{ja}}{R'_{jm}} \right) \quad (7)$$

where:

R_{jm}^* = the final revenue estimate for month m in consumer sector j,

R_{jm} = the estimated revenue for month m in consumer sector j,

R_{ja} = the revenue for the year reported on Form EIA-176,

R'_{jm} = the annual sum of estimated monthly revenues.

Revision of Volumes and Prices for Deliveries to Electric Power Sector. Revisions to monthly deliveries to the electric power sector are published throughout the year as they become available.

Reliability of Monthly Data

The monthly data published in this report are subject to two sources of error — nonsampling error and sampling error. Nonsampling errors occur in the collection and processing of the data.

See the discussion of the Form EIA-857 in Appendix B for a description of nonsampling errors for monthly data.

Sampling error may be defined as the difference between the results obtained from a sample and the results that a complete enumeration would provide. The standard error statistic is a measurement of sampling error.

Standard Errors. A standard error of an estimate is a statistical measure that indicates how the estimate from the sample compares to the result from a complete enumeration.

The standard errors for monthly natural gas volume and price estimates by state are given in Table C1. They are constructed so that over the long run the true value is within two standard errors of its estimate 95% of the time. For volume estimates, the relative standard error (RSE) is published as a percent. Standard errors of prices are expressed in dollars.

The relative standard error of a natural gas volume estimate is the square root of the variance of the estimate divided by the published volume. The formula for calculating the variance of the volume estimate is:

$$Var(V_j) = \sigma_\epsilon^2 \sum_{i=n+1}^N x_{ij} + \left(\frac{\sigma_\epsilon^2}{\sum_{i=1}^n x_{ij}} \right) \left(\sum_{i=n+1}^N x_{ij} \right)^2 \quad (8)$$

where:

$V_{.j}$ = the estimate of monthly gas volumes in a state for sector j,

$\sigma_\epsilon^2 = \frac{\sum_{i=1}^n \sigma_{0i}^2}{(n-1)}$, the sum of squared residuals,

$\sigma_{0i} = \frac{(y_{ij} - T_{.j} x_{ij})}{\sqrt{x_{ij}}}$, the weighted residual for company i,

$T_{.j}$ = the ratio estimator defined in equation 1,

x_{ij} = the reported annual volume for company i in sector j,

y_{ij} = the reported monthly volume for company i in sector j,

n = sample size ($i > n$ implies company i not in sample),

N = frame size.

As the price of natural gas is calculated as a quotient of revenue to volume, the standard error of natural gas prices is derived using the variance properties of a quotient. The variance of revenue is calculated in the same manner as the volumes described in equation 8, with revenue substituted for volume. The formula for calculating the standard error of the price in equation 4 is:

$$Var(P_j) = Var\left(\frac{R_j}{V_j}\right) = \left(\frac{R_j}{V_j}\right)^2 * \left(\frac{Var(R_j)}{R_j^2} + \frac{Var(V_j)}{V_j^2} - 2\frac{Cov(R_j,V_j)}{R_j*V_j}\right) \quad (9)$$

where:

P_j = natural gas price in sector j,

V_j = volume in sector j, which is estimated in equation 1,

R_j = revenue in sector j, which is estimated in same manner as equation 1,

$Var(V_j)$ = the variance of volume in sector j calculated using equation 8,

$Var(R_j)$ = the variance of revenue in sector j calculated in the same manner as equation 8,

$Cov(V_j,R_j)$ = the covariance between revenue and volume in sector j. The formula for estimating the covariance is:

$$\left[\left(\sum_{i=n+1}^N x_{Rij} \right) \left(\sum_{i=n+1}^N x_{Vij} \right) \frac{\sum_{i=1}^n \sqrt{x_{Rij}x_{Vij}}}{\left(\sum_{i=1}^n x_{Rij} \right) \left(\sum_{i=1}^n x_{Vij} \right)} + \sum_{i=n+1}^N \sqrt{x_{Rij}x_{Vij}} \right] \\ * \left[\left(\frac{1}{n-1} \right) \sum_{i=1}^n \sqrt{x_{Rij}x_{Vij}} (y_{Rij} - T_{Rj})(y_{Vij} - T_{vj}) \right]$$

and,

x_{Rij} = the reported annual revenue for company i in sector j,

x_{vij} = the reported annual volume for company i in sector j,

y_{Rij} = the reported monthly revenue for company i in sector j,

y_{vij} = the reported monthly volume for company i in sector j,

$$T_{Rj} = \frac{\sum_{i \in s} y_{Rij}}{\sum_{i \in s} x_{Rij}},$$

$$T_{vj} = \frac{\sum_{i \in s} y_{vij}}{\sum_{i \in s} x_{vij}}.$$

The formula for calculating the standard error of price in equations 5a and 5b is derived after a suitable expansion that involves repeated applications of equations 8 and 9.

Table C1. Standard error for natural gas deliveries and price by consumers, by state, August 2018

State	Volume Relative Standard Error (Percent)				Price (Dollars per Thousand Cubic Feet)		
	Residential	Commercial	Industrial	Total	Residential	Commercial	Industrial
Alabama	2.8	1.7	1.8	1.6	0.49	0.14	0.04
Alaska	1.7	2.0	0.0	1.0	0.08	0.18	0.00
Arizona	2.0	5.1	3.7	2.6	0.42	0.22	0.07
Arkansas	1.4	0.1	3.0	2.1	0.02	0.03	0.06
California	5.4	1.6	1.9	1.6	1.24	1.11	0.54
Colorado	1.9	1.8	3.6	2.1	0.25	0.28	0.59
Connecticut	0.3	1.3	1.3	0.8	0.07	0.23	0.01
Delaware	0.0	0.0	0.0	0.0	0.00	0.00	0.00
District of Columbia	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Florida	2.1	0.9	5.9	3.5	0.90	0.47	0.44
Georgia	0.0	0.0	1.1	0.0	0.00	0.06	0.07
Hawaii	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Idaho	1.3	1.1	0.0	0.3	0.00	0.02	0.00
Illinois	1.1	5.4	3.5	2.3	0.39	0.28	0.70
Indiana	2.3	0.8	1.2	1.1	0.67	0.21	0.30
Iowa	1.1	1.1	1.9	1.7	0.11	0.15	0.13
Kansas	2.6	0.5	3.4	2.6	0.16	0.06	0.16
Kentucky	1.8	1.1	2.4	1.9	0.28	0.07	0.06
Louisiana	4.4	3.7	1.8	1.7	0.33	0.31	0.33
Maine	3.1	NA	4.8	4.3	1.32	0.39	0.00
Maryland	0.2	0.3	0.4	0.2	0.05	0.06	0.00
Massachusetts	0.9	1.1	1.4	0.7	0.13	0.35	0.15
Michigan	0.5	0.9	2.5	1.3	0.10	0.07	0.15
Minnesota	2.3	0.8	4.8	3.3	0.28	0.06	0.05
Mississippi	1.7	1.4	2.9	2.6	0.19	0.16	0.11
Missouri	1.9	1.4	1.4	0.9	0.15	0.16	0.05
Montana	0.7	0.4	0.1	0.2	0.08	0.15	1.16
Nebraska	1.9	2.2	5.0	4.0	0.14	0.30	0.19
Nevada	0.0	0.0	0.1	0.1	0.00	0.00	0.07
New Hampshire	0.0	0.0	7.7	4.9	0.00	0.00	0.00
New Jersey	0.0	0.0	1.7	0.4	0.00	0.00	0.00
New Mexico	NA	8.9	NA	6.2	NA	0.95	NA
New York	0.0	0.0	3.5	0.0	0.13	0.04	0.41
North Carolina	1.2	1.0	0.8	0.6	0.03	0.12	0.40
North Dakota	0.2	0.2	0.3	0.2	0.05	0.01	0.00
Ohio	0.0	0.0	1.7	0.0	0.26	0.07	NA
Oklahoma	2.7	0.8	1.2	1.0	0.09	0.22	0.14
Oregon	0.0	0.0	1.0	0.7	0.00	0.00	0.00
Pennsylvania	1.5	1.0	1.6	1.0	0.09	0.14	0.68
Rhode Island	0.0	0.0	0.0	0.0	0.00	0.00	0.00
South Carolina	0.8	1.9	1.4	1.2	0.83	0.14	0.10
South Dakota	2.1	1.4	0.8	0.7	0.22	0.08	0.13
Tennessee	3.8	2.9	1.4	1.2	1.09	0.21	0.09
Texas	2.2	3.2	1.1	1.0	NA	0.41	0.02
Utah	0.4	0.4	0.0	0.1	0.00	0.00	0.01
Vermont	0.0	0.0	0.0	0.0	0.00	0.00	0.00
Virginia	0.8	2.0	2.5	1.6	0.26	0.13	0.22
Washington	0.9	1.0	1.0	0.7	0.05	0.06	0.04
West Virginia	7.0	1.6	1.9	1.5	0.05	0.15	0.08
Wisconsin	1.1	1.4	1.7	1.2	0.32	0.08	0.13
Wyoming	1.6	3.6	7.2	6.3	0.80	0.60	0.02
Total	0.9	0.5	0.5	0.4	0.26	0.11	0.02

^{NA} Not available.

Source: U.S. Energy Information Administration (EIA): Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

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Glossary

Aquifer Storage Field: A sub-surface facility for storing natural gas, consisting of water-bearing sands topped by an impermeable cap rock.

Balancing Item: Represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to data reporting or survey coverage problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems which vary in scope, format, definitions, and type of respondents.

Base (Cushion) Gas: The volume of gas needed as a permanent inventory to maintain adequate reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

British Thermal Unit (Btu): The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit).

Btu Per Cubic Foot: The total heating value, expressed in Btu, produced by the combustion, at constant pressure, of the amount of the gas that would occupy a volume of 1 cubic foot at a temperature of 60 degrees F if saturated with water vapor and under a pressure equivalent to that of 30 inches of mercury at 32 degrees F and under standard gravitational force (980.665 cm. per sec. squared) with air of the same temperature and pressure as the gas, when the products of combustion are cooled to the initial temperature of gas and air when the water formed by combustion is condensed to the liquid state.(Sometimes called gross heating value or total heating value.)

Citygate: A point or measuring station at which a gas distribution company receives gas from a pipeline company or transmission system.

Commercial Consumption: Gas used by nonmanufacturing establishments or agencies primarily engaged in the sale of goods or services such as hotels, restaurants, wholesale and retail stores and other service enterprises; and gas used by local, state and federal agencies engaged in nonmanufacturing activities.

Compressed Natural Gas (CNG): Natural gas which is comprised primarily of methane, compressed to a pressure at or above 2,400 pounds per square inch and stored in special high-pressure containers. It is used as a fuel for natural gas powered vehicles.

Depleted Storage Field: A sub-surface natural geological reservoir, usually a depleted oil or gas field, used for storing natural gas.

Dry Natural Gas Production: The process of producing consumer-grade natural gas. Natural gas withdrawn from reservoirs is reduced by volumes used at the production (lease) site and by processing losses. Volumes used at

the production site include (1) the volume returned to reservoirs in cycling, repressuring of oil reservoirs, and conservation operations; and (2) gas vented and flared. Processing losses include (1) nonhydrocarbon gases (e.g., water vapor, carbon dioxide, helium, hydrogen sulfide, and nitrogen) removed from the gas stream; and (2) gas converted to liquid form, such as lease condensate and plant liquids. Volumes of dry gas withdrawn from gas storage reservoirs are not considered part of production. Dry natural gas production equals marketed production less natural gas plant liquid production.

Electric Power Consumption: Gas used as fuel in the electric power sector.

Electric Power Sector: An energy-consuming sector that consists of electricity-only and combined heat and power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public – i.e., North American Industry Classification System 22 plants.

Exports: Natural gas deliveries out of the continental United States (including Alaska) to foreign countries.

Gas Well: A well completed for production of natural gas from one or more gas zones or reservoirs. Such wells contain no completions for the production of crude oil.

Gross Withdrawals: Full well stream volume, including all natural gas plant liquid and nonhydrocarbon gases, but excluding lease condensate. Also includes amounts delivered as royalty payments or consumed in field operations.

Heating Value: The average number of British thermal units per cubic foot of natural gas as determined from tests of fuel samples.

Imports: Natural gas received in the Continental United States (including Alaska) from a foreign country.

Industrial Consumption: Natural gas used for heat, power, or chemical feedstock by manufacturing establishments or those engaged in mining or other mineral extraction as well as consumers in agriculture, forestry, and fisheries. Also included in industrial consumption are generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

Intransit Deliveries: Redeliveries to a foreign country of foreign gas received for transportation across U.S. territory and deliveries of U.S. gas to a foreign country for transportation across its territory and redelivery to the United States.

Intransit Receipts: Receipts of foreign gas for transportation across U.S. territory and redelivery to a foreign country and redeliveries to the United States of U.S. gas transported across foreign territory.

Lease and Plant Fuel: Natural gas used in well, field, lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and as fuel in natural gas processing plants.

Liquefied Natural Gas (LNG): Natural gas (primarily methane) that has been liquefied by reducing its temperature to -260 degrees Fahrenheit at atmospheric pressure.

Local Distribution Company (LDC): A legal entity engaged primarily in the retail sale and/or delivery of natural gas through a distribution system that includes mainlines (that is, pipelines designed to carry large volumes of gas,

usually located under roads or other major right-of-ways) and laterals (that is, pipelines of smaller diameter that connect the end user to the mainline). Since the restructuring of the gas industry, the sale of gas and/or delivery arrangements may be handled by other agents, such as producers, brokers, and marketers that are referred to as "non-LDC."

Marketed Production: Gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations.

Native Gas: Gas in place at the time that a reservoir was converted to use as an underground storage reservoir, as in contrast to injected gas volumes.

Natural Gas: A gaseous mixture of hydrocarbon compounds, the primary one being methane. Note: The Energy Information Administration measures wet natural gas and its two sources of production, associated/dissolved natural gas and nonassociated natural gas, and dry natural gas, which is produced from wet natural gas.

Natural Gas Liquids (NGL): A group of hydrocarbons including ethane, propane, normal butane, isobutane, and natural gasoline. Generally include natural gas plant liquids and all liquefied refinery gases, except olefins.

Natural Gas Marketer: A company that arranges purchases and sales of natural gas. Unlike pipeline companies or local distribution companies, a marketer does not own physical assets commonly used in the supply of natural gas, such as pipelines or storage fields. A marketer may be an affiliate of another company, such as a local distribution company, natural gas pipeline, or producer, but it operates independently of other segments of the company. In states with residential choice programs, marketers serve as alternative suppliers to residential users of natural gas, which is delivered by a local distribution company.

Natural Gas Plant Liquids (NGPL): Those hydrocarbons in natural gas that are separated as liquids at natural gas processing, fractionating, and cycling plants. Products obtained include ethane, liquefied petroleum gases (propane and butanes), and natural gasoline. Component products may be fractionated or mixed. Lease condensate and plant condensate are excluded.

Natural Gas Plant Liquids (NGPL) Production: The extraction of gas plant liquids constituents such as ethane, propane, normal butane, isobutane, and natural gasoline, sometimes referred to as extraction loss. Usually reported in barrels or gallons, but may be reported in cubic feet for purposes of comparison with dry natural gas volumes.

Nominal Dollars: A measure used to express nominal price.

Nominal Price: The price paid for a product or service at the time of the transaction. Nominal prices are those that have not been adjusted to remove the effect of changes in the purchasing power of the dollar; they reflect buying power in the year in which the transaction occurred.

Onsystem Sales: Sales to customers where the delivery point is a point on, or directly interconnected with, a transportation, storage, and/or distribution system operated by the reporting company.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Repressuring: The injection of gas into oil or gas formations to effect greater ultimate recovery.

Residential Consumption: Gas used in private dwellings, including apartments, for heating, cooking, water heating, and other household uses.

Salt Cavern Storage Field: A storage facility that is a cavern hollowed out in either a “salt bed” or “dome” formation.

Storage Additions: Volumes of gas injected or otherwise added to underground natural gas reservoirs or liquefied natural gas storage.

Storage Withdrawals: Total volume of gas withdrawn from underground storage or from liquefied natural gas storage over a specified amount of time.

Supplemental Gaseous Fuels Supplies: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Underground Gas Storage Reservoir Capacity: Interstate company reservoir capacities are those certificated by FERC. Independent producer and intrastate company reservoir capacities are reported as developed capacity.

Vehicle Fuel Consumption: Natural gas (compressed or liquefied) used as vehicle fuel.

Working (Top Storage) Gas: The volume of gas in an underground storage reservoir above the designed level of the base. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.